

Annex

- Table A5. Transport Safety Appraisal Service (TransSAS) missions in 2004
- Table A6. Peer review of radiation safety infrastructure missions in 2004
- Table A7. International PSA Review Team (IPSART) missions in 2004
- Table A8. International Regulatory Review Team (IRRT) missions in 2004
- Table A9. Operational Safety Review Team (OSART) missions in 2004
- Table A10. Peer Review of Operational Safety Performance Experience (PROSPER) missions in 2004
- Table A11. Integrated Safety Assessment of Research Reactors (INSARR) missions in 2004
- Table A12. Safety Review Service missions in 2004
- Table A13. International Nuclear Security Advisory Service (INSServ) missions in 2004
- Table A14. International Physical Protection Advisory Service (IPPAS) missions in 2004
- Table A15. National strategies missions in 2004 for regaining control over radioactive sources
- Table A16. Missions under the 'Trilateral Initiative' involving the Agency, the Russian Federation and the USA
- Table A17. Number of States having significant nuclear activities at the end of 2002, 2003 and 2004
- Table A18. Approximate quantities of material subject to Agency safeguards at the end of 2004
- Table A19. Number of facilities under Agency safeguards or containing safeguarded material on 31 December 2004
- Table A20. Facilities under Agency safeguards or containing safeguarded material on 31 December 2004
- Table A21. Coordinated Research Projects initiated in 2003
- Table A22. Coordinated Research Projects completed in 2003
- Table A23. Training courses, seminars and workshops in 2003
- Table A24. Publications issued in 2003

Table A5. Transport Safety Appraisal Service (TranSAS) missions in 2004

Type	Country
TranSAS mission	France
Pre-TranSAS mission	Japan

Table A6. Peer review of radiation safety infrastructure missions in 2004

Scope	Country
Regulatory infrastructure and occupational radiation control	Azerbaijan
Regulatory infrastructure and occupational radiation control	Bahamas
Regulatory infrastructure and occupational radiation control	Bahrain
Regulatory infrastructure and occupational radiation control	Bolivia
Regulatory infrastructure and occupational radiation control	China
Regulatory infrastructure and occupational radiation control	Indonesia
Regulatory infrastructure and occupational radiation control	Jamaica
Regulatory infrastructure and occupational radiation control	Kazakhstan
Regulatory infrastructure and occupational radiation control	Kuwait
Regulatory infrastructure and occupational radiation control	Lithuania
Regulatory infrastructure and occupational radiation control	Malaysia
Regulatory infrastructure and occupational radiation control	Panama
Regulatory infrastructure and occupational radiation control	Philippines
Regulatory infrastructure and occupational radiation control	Romania
Regulatory infrastructure and occupational radiation control	Syrian Arab Republic
Regulatory infrastructure and occupational radiation control	Ukraine

Table A7. International PSA Review Team (IPSART) missions in 2004

Type	Plant/site	Country
Level 1 and Level 2 PSA	Sizewell B	United Kingdom
Level 2 PSA	Tianwan	China
Follow-up IPSART mission	Cernavoda	Romania

Table A8. International Regulatory Review Team (IRRT) missions in 2004

Type	Country
Full scope follow-up mission	Armenia, China

Table A9. Operational Safety Review Team (OSART) missions in 2004

Type	Plant and reactor type	Country
Preparatory OSART	Tianwan PWR	China
Preparatory OSART	Blayais PWR	France
Preparatory OSART	Borssele PWR	Netherlands
Preparatory OSART	Cernavoda PHWR	Romania
Preparatory OSART	Volgodonsk WWER	Russian Federation
Preparatory OSART	Brunswick BWR	USA
OSART	Pickering A PHWR	Canada
OSART	Penly PWR	France
OSART	Philipsburg-2 PWR	Germany
OSART	Kashiwazaki-Kariwa BWR/ABWR	Japan
OSART	Chashma PWR	Pakistan
OSART	Zaporozhye WWER	Ukraine
Follow-up OSART	Angra 2 PWR	Brazil
Follow-up OSART	Nogent PWR	France
Follow-up OSART	Civaux PWR	France

Table A10. Peer Review of Operational Safety Performance Experience (PROSPER) missions in 2004

Type	Plant and reactor type	Country
Workshop	Daya Bay PWR	China
Preparatory PROSPER and seminar	Chashma PWR	Pakistan
Preparatory PROSPER	Santa Maria de Garóna BWR	Spain

Table A11. Integrated Safety Assessment of Research Reactors (INSARR) missions in 2004

Type	Location; reactor type	Country
Preparatory INSARR	Petten; Tank-in-pool	Netherlands
INSARR	Kinshasa; TRIGA Mark II	Democratic Republic of the Congo
Follow-up INSARR	Savar; TRIGA Mark II	Bangladesh
Follow-up INSARR	Santiago; RECH-1	Chile
Follow-up INSARR	Athens; Pool	Greece
Follow-up INSARR	Pitesti; TRIGA	Romania

Table A12. Safety Review Service missions in 2004

Type	Plant/site	Country
Seismic safety review service	Yerevan, ANPP	Armenia
Expert mission for risk monitors	Kozloduy 3/4	Bulgaria
Expert mission on PSA	Qinshan 3	China
Licensing process and operation of IAN-R1	Bogota	Colombia
Safety review mission	El Dabaa	Egypt
Seismic capacity and site safety report	Bandung and Muria	Indonesia
Review mission to review legislation	Jakarta	Indonesia
Follow-up EPREV	Jakarta	Indonesia
Review PSAR	Bushehr	Islamic Republic of Iran
Safety culture	Tehran	Islamic Republic of Iran
Review SAR	Puspati TRIGA Mark II	Malaysia
Commissioning	Zaria Research Reactor	Nigeria
Review proposed emergency control room and EOP	KANUPP	Pakistan
Preliminary decommissioning programme	PRR-1	Philippines
Review legal and governmental infrastructure	Manila	Philippines
Management system and current status	PNRR-1	Philippines
Probabilistic seismic hazards analysis	Cernavoda	Romania
Fire review mission	TRR-1/M1	Thailand
Ageing management programme review	Ukrainian plant and South Ukraine plant	Ukraine
Expert mission	Tashkent Research Reactor	Uzbekistan

Table A13. International Nuclear Security Advisory Service (INSServ) missions in 2004

Type	Country
INSServ	Argentina
INSServ	Colombia
INSServ	Indonesia
INSServ	Malaysia
INSServ	Morocco
INSServ	Nigeria
INSServ	Serbia and Montenegro
INSServ	Tunisia
INSServ	Uruguay
INSServ	Venezuela
INSServ	Yemen

Table A14. International Physical Protection Advisory Service (IPPAS) missions in 2004

Type	Country
Preparatory IPPAS	Thailand
IPPAS	Islamic Republic of Iran
IPPAS	Kazakhstan

Table A15. National strategies missions in 2004 for regaining control over radioactive sources

Type	Country
Mission	Bolivia
Mission	Ghana
Mission	Kazakhstan
Mission	Lithuania
Mission	Panama
Mission	Ukraine

Table A16. Missions under the ‘Trilateral Initiative’ involving the Agency, the Russian Federation and the USA

Type	Country
Mission	Azerbaijan
Mission	Belarus
Mission	Estonia
Mission	Kazakhstan
Mission	Republic of Moldova

Table A17. Number of States having significant nuclear activities at the end of 2002, 2003 and 2004

	Number of States		
	2002	2003	2004
States with safeguards applied under NPT or NPT/Tlatelolco agreements	59*	62	63
States with safeguards applied under Tlatelolco agreements	0	0	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	3
Nuclear weapon States with safeguards applied under voluntary offer agreements	5	5	5**
States without any safeguards agreement in force	1	1	0
Total number of States with significant nuclear activities^b	68	71	71

^a 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.

^b According to information available to the Agency for the year in question.

* This excludes Iraq where safeguards activities are subsumed under activities carried out pursuant to UNSC resolutions.

** At the end of 2004, there were no facilities designated for inspection in the Russian Federation

Table A18. Approximate quantities of material subject to Agency safeguards at the end of 2004

Type of material	Quantity of material (t)			Quantity in SQs
	Comprehensive safeguards agreements ^a	INFCIRC/66 ^b	Nuclear weapon States	
Nuclear material				
Plutonium ^c contained in irradiated fuel	661.6	33.8	99.7	99395
Separated plutonium outside reactor cores	12.3	0.1	76.6	11124
Separated plutonium in fuel elements in reactor cores	13.8	0.5	0	1777
HEU (equal to or greater than 20% ²³⁵ U)	21.9	0.1	10.0	667
LEU (less than 20% ²³⁵ U)	47161	3125	4589	14361
Source material ^d (natural or depleted uranium and thorium)	92877	1913	13150	6598
Non-nuclear material^e				
Heavy water	0	451	0	
Total significant quantities				133922

^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 91t (11383 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

Table A19. Number of facilities under Agency safeguards or containing safeguarded material on 31 December 2004

Facility type	Number of facilities (number of installations)			
	Comprehensive safeguards agreements ^a	INFCIRC/66 ^b	Nuclear weapon States	Total
Power reactors	186 (223)	13 (16)	1 (1)	200 (240)
Research reactors and critical assemblies	141 (152)	7 (7)	1 (1)	149 (160)
Conversion plants	15 (15)	1 (1)	0	16 (16)
Fuel fabrication plants	38 (41)	3 (3)	0	41 (44)
Reprocessing plants	6 (6)	1 (1)	0	7 (7)
Enrichment plants	9 (9)	0	2 (4)	11 (13)
Separate storage facilities	80 (82)	3 (3)	6 (7)	89 (92)
Other facilities	71 (83)	1 (1)	1 (1)	73 (85)
Subtotals	546 (611)	29 (32)	11 (14)	586 (657)
Other locations	334 (435)	3 (30)	0	337 (456)
Non-nuclear installations	0	0 (0)	0	0 (0)
Totals	879 (1044)	32 (62)	11 (14)	923 (1122)

^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. Facilities under Agency Safeguards or Containing Safeguarded Material on 31 December 2004

State ^a	Abbreviated name of facility	No. of units	Location	SA in force
Power reactors				
Argentina	Atucha NPP	1	Lima	-
	Embalse NPP	1	Embalse	-
Armenia	Armenia NPP	2	Medzamor	x
Belgium	DOEL-1	2	Doel	x
	DOEL-3	1	Doel	x
	DOEL-4	1	DOEL	x
	Tihange-1	1	Tihange	x
	Tihange-2	1	Tihange	x
	Tihange-3	1	Tihange	x
	Brazil	Admiral Alvaro Alberto (Angra-1)	1	Angra dos Reis
Admiral Alvaro Alberto (Angra-2)		1	Angra dos Reis	x
Bulgaria	Kozloduy-I	2	Kozloduy	x
	Kozloduy-II	2	Kozloduy	x
	Kozloduy-III	2	Kozloduy	x
Canada	Bruce A	4	Tiverton	x
	Bruce B	4	Tiverton	x
	Darlington N.G.S.	4	Bowmanville	x
	Gentilly-2	1	Gentilly	x
	Pickering G.S.	8	Pickering	x
	Point Lepreau G.S.	1	Point Lepreau	x
China	QSNPP	1	Hai Yan	x
Czech Republic	EDU-1	2	Dukovany	x
	EDU-2	2	Dukovany	x
	Temelin	2	Temelin	x
Democratic People's Republic of Korea	Nyongbyon-1	1	Nyongbyon	-
Finland	Loviisa	2	Loviisa	-
	TVO I	1	Olkiluoto	-
	TVO II	1	Olkiluoto	-
Germany	AVR	1	Jülich	-
	KWG Grohnde	1	Grohnde	x
	GKN-2	1	Neckarwestheim	x
	GKN Neckarwestheim	1	Neckarwestheim	x
	RWE Biblis-A	1	Biblis	x

State^a	Abbreviated name of facility	No. of units	Location	SA in force
	RWE Biblis-B	1	Biblis	x
	KBR Brokdorf	1	Brokdorf	x
	KKB Brunsbüttel	1	Brunsbüttel	x
	KKE Emsland	1	Lingen	x
	KKG Grafenrheinfeld	1	Grafenrheinfeld	x
	KKI Isar-Ohu	1	Ohu bei Landshut	x
	KKI Isar-2	1	Essenbach	x
	KKK Krümmel	1	Geesthacht	x
	KWO Obrigheim	1	Obrigheim	x
	KKP Philippsburg-1	1	Philippsburg	x
	KKP Philippsburg-2	1	Philippsburg	x
	KRB II Gundremmingen B	1	Gundremmingen	x
	KRB II Gundremmingen C	1	Gundremmingen	x
	KKS Stade	1	Stade	x
	KKU Unterweser	1	Unterweser	x
	HKG-THTR 300	1	Hamm	x
	KKW Greifswald 1	1	Lubmin	-
	KKW Greifswald 2	1	Lubmin	-
	KKW Greifswald 3	1	Lubmin	-
Hungary	PAKS-I	2	Paks	x
	PAKS-II	2	Paks	x
India	RAPS	2	Rajasthan	x
	TAPS	2	Tarapur	x
	KKNP	2	Kudankulam	-
Italy	ENEL-Latina	1	Borgo-Sabotino	x
	ENEL-Caorso	1	Caorso	x
	ENEL-Trino	1	Trino-Vercellese	x
Japan	Fugen	1	Tsuruga-shi, Fukui-ken	x
	Fukushima Dai-Ichi-1	1	Futaba-gun, Fukushima-ken	x
	Fukushima Dai-Ichi-2	1	Futaba-gun, Fukushima-ken	x
	Fukushima Dai-Ichi-3	1	Futaba-gun, Fukushima-ken	x
	Fukushima Dai-Ichi-4	1	Futaba-gun, Fukushima-ken	x
	Fukushima Dai-Ichi-5	1	Futaba-gun, Fukushima-ken	x
	Fukushima Dai-Ichi-6	1	Futaba-gun, Fukushima-ken	x
	Fukushima Dai-Ni-1	1	Futaba-gun, Fukushima-ken	x
	Fukushima Dai-Ni-2	1	Futaba-gun, Fukushima-ken	x
	Fukushima Dai-Ni-3	1	Futaba-gun, Fukushima-ken	x
	Fukushima Dai-Ni-4	1	Futaba-gun, Fukushima-ken	x
	Genkai-1	1	Higashimatsura-gun, Saga-ken	x
	Genkai-2	1	Higashimatsura-gun, Saga-ken	x

State^a	Abbreviated name of facility	No. of units	Location	SA in force
	Genkai-3	1	Higashimatsura-gun, Saga-ken	x
	Genkai-4	1	Higashimatsura-gun, Saga-ken	x
	Hamaoka-1	1	Ogasa-gun, Shizuoka-ken	x
	Hamaoka-2	1	Ogasa-gun, Shizuoka-ken	x
	Hamaoka-3	1	Ogasa-gun, Shizuoka-ken	x
	Hamaoka-4	1	Ogasa-gun, Shizuoka-ken	x
	Hamaoka-5	1	Ogasa-gun, Shizuoka-ken	-
	Ikata-1	1	Nishiuwa-gun, Ehime-ken	x
	Ikata-2	1	Nishiuwa-gun, Ehime-ken	x
	Ikata-3	1	Nishiuwa-gun, Ehime-ken	x
	Joyo	1	Higashi-gun, Ibaraki-ken	x
	Kashiwazaki-1	1	Kashiwazaki-shi, Niigata-ken	x
	Kashiwazaki-2	1	Kashiwazaki-shi, Niigata-ken	x
	Kashiwazaki-3	1	Kashiwazaki-shi, Niigata-ken	x
	Kashiwazaki-4	1	Kashiwazaki-shi, Niigata-ken	x
	Kashiwazaki-5	1	Kashiwazaki-shi, Niigata-ken	x
	Kashiwazaki-6	1	Kashiwazaki-shi, Niigata-ken	x
	Kashiwazaki-7	1	Kashiwazaki-shi, Niigata-ken	x
	Mihama-1	1	Mikata-gun, Fukui-ken	x
	Mihama-2	1	Mikata-gun, Fukui-ken	x
	Mihama-3	1	Mikata-gun, Fukui-ken	x
	Monju	1	Tsuruga-shi, Fukui-ken	x
	Ohi-1 and 2	2	Ohi-gun, Fukui-ken	x
	Ohi-3	2	Ohi-gun, Fukui-ken	x
	Ohi-4	2	Ohi-gun, Fukui-ken	x
	Onagawa-1	1	Oshika-gun, Miyaki-ken	x
	Onagawa-2	1	Oshika-gun, Miyaki-ken	x
	Onagawa-3	1	Oshika-gun, Miyaki-ken	x
	Sendai-1	1	Sendai-shi, Kagoshima-ken	x
	Sendai-2	1	Sendai-shi, Kagoshima-ken	x
	Shika	1	Hakui-gun, Ishikawa-ken	x
	Shimane-1	1	Yatsuka-gun, Shimane-ken	x
	Shimane-2	1	Yatsuka-gun, Shimane-ken	x
	Takahama-1	1	Ohi-gun, Fukui-ken	x
	Takahama-2	1	Ohi-gun, Fukui-ken	x
	Takahama-3	1	Ohi-gun, Fukui-ken	x
	Takahama-4	1	Ohi-gun, Fukui-ken	x
	Tokai-2	1	Tokai-Mura, Ibaraki-ken	x
	Tomari-1	1	Fururu-gun, Hokkaido	x
	Tomari-2	1	Fururu-gun, Hokkaido	x

State^a	Abbreviated name of facility	No. of units	Location	SA in force
	Tsuruga-1	1	Tsuruga-shi, Fukui-ken	x
	Tsuruga-2	1	Tsuruga-shi, Fukui-ken	x
Kazakhstan	BN-350	1	Aktau	-
Korea, Republic of	Kori-1	1	Pusan	x
	Kori-2	1	Pusan	x
	Kori-3	1	Pusan	x
	Kori-4	1	Pusan	x
	Ulchin-1	1	Ulchin	x
	Ulchin-2	1	Ulchin	x
	Ulchin-3	1	Ulchin	x
	Ulchin-4	1	Ulchin	x
	Ulchin-5	1	Ulchin	x
	Ulchin-6	1	Ulchin	-
	Wolsong-1	1	Kyongju	X
	Wolsong-2	1	Kyongju	x
	Wolsong-3	1	Kyongju	x
	Wolsong-4	1	Kyongju	x
	Younggwang-1	1	Younggwang	x
	Younggwang-2	1	Younggwang	x
	Younggwang-3	1	Younggwang	x
	Younggwang-4	1	Younggwang	x
	Younggwang-5	1	Younggwang	x
	Younggwang-6	1	Younggwang	x
Lithuania	Ignalina NPP	2	Visaginas	x
Mexico	Laguna Verde 1	1	Alto Lucero	x
	Laguna Verde 2	1	Alto Lucero	x
Netherlands	Borssele	1	Borssele	x
	Dodewaard NPP	1	Dodewaard	x
Pakistan	KANUPP	1	Karachi	x
	Chasnupp-1	1	Kundian	-
Romania	Cernavoda-1	1	Cernavoda	x
Slovakia	EMO-1	2	Mochovce	-
	V-1	2	Bohunice	x
	V-2	2	Bohunice	x
Slovenia	Krško	1	Krško	x
South Africa	Koeberg-1	1	Cape Town	x
	Koeberg-2	1	Cape Town	x
Spain	Almaraz-1	1	Almaraz	x
	Almaraz-2	1	Almaraz	x
	Asco-1	1	Asco	x

State^a	Abbreviated name of facility	No. of units	Location	SA in force
Sweden	Asco-2	1	Asco	x
	Cofrentes	1	Cofrentes	x
	José Cabrera	1	Almonazid de Zorita	x
	Santa María de Garona	1	Santa María de Garona	x
	Trillo-1	1	Trillo	x
	Vandellos 1	1	Vandellos	-
	Vandellos 2	1	Vandellos	x
	Barsebäck 1	1	Malmö	-
	Barsebäck 2	1	Malmö	-
	Forsmark 1	1	Uppsala	-
	Forsmark 2	1	Uppsala	-
	Forsmark 3	1	Uppsala	-
	Oskarshamn 1	1	Oskarshamn	-
	Oskarshamn 2	1	Oskarshamn	-
	Oskarshamn 3	1	Oskarshamn	-
	Ringhals 1	1	Göteborg	-
	Ringhals 2	1	Göteborg	-
	Ringhals 3	1	Göteborg	-
	Ringhals 4	1	Göteborg	-
Switzerland	KKB Beznau I	1	Beznau	x
	KKB Beznau II	1	Beznau	x
	KKG Gösgen	1	Gösgen-Däniken	x
	KKL Leibstadt	1	Leibstadt	x
	KKM Mühleberg	1	Mühleberg	x
Ukraine	Chernobyl NPP	3	Chernobyl	-
	Khmelnitski 1	1	Neteshin	-
	Khmelnitski 2	1	Neteshin	-
	Rovno 1 and 2	2	Kuznetsovsk	-
	Rovno 3	1	Kuznetsovsk	-
	Rovno 4	1	Kuznetsovsk	-
	South Ukraine 1	1	Yuzhnoukrainsk	-
	South Ukraine 2	1	Yuzhnoukrainsk	-
	South Ukraine 3	1	Yuzhnoukrainsk	-
	Zaporozhe 1	1	Energodar	-
	Zaporozhe 2	1	Energodar	-
	Zaporozhe 3	1	Energodar	-
	Zaporozhe 4	1	Energodar	-
	Zaporozhe 5	1	Energodar	-
	Zaporozhe 6	1	Energodar	-

State ^a	Abbreviated name of facility	No. of units	Location	SA in force
Research reactors and critical assemblies				
Algeria	NUR Reactor	1	Algiers	-
	Es Salam research reactor	1	Ain Oussera	-
Argentina	Argentine reactor-1	1	Constituyentes	x
	Argentine reactor-3	1	Ezeiza	x
	Argentine reactor-4	1	Rosario	x
	Argentine reactor-6	1	Bariloche	x
	Argentine reactor-0	1	Córdoba	x
	Argentine reactor-8	1	Pilcaniyeu	x
Australia	HIFAR	1	Lucas Heights	x
	MOATA	1	Lucas Heights	x
Austria	ASTRA	1	Seibersdorf	x
	Siemens Argonaut Reactor	1	Graz	-
	Triga II	1	Vienna	-
Bangladesh	At. Energy Res. Est.	1	Dhaka	x
Belarus	Sosny	1	Minsk	-
Belgium	BR1-CEN	1	Mol	x
	BR2-CEN-BRO2	2	Mol	X
	CEN-Venus	1	Mol	x
	Thetis	1	Gent	x
Brazil	IEA-R1	1	São Paulo	-
	RIEN-1 Argonaut RR	1	Rio de Janeiro	x
	IPR-RI-CDTN	1	Belo Horizonte	x
	IPEN Critical assembly	1	São Paulo	x
Bulgaria	IRT-2000	1	Sofia	x
Canada	Biology, Chemistry, Physics	2	Chalk River	x
	McMaster	1	Hamilton	x
	NRU	1	Chalk River	X
	NRX	1	Chalk River	X
	Slowpoke-Dalhousie Univ.	1	Halifax	x
	Slowpoke-Ecole Polytechnique	1	Montreal	x
	Slowpoke-Kingston	1	Kingston	x
	Slowpoke-Saskatchewan	1	Saskatoon	x
	Slowpoke-Univ. of Alberta	1	Edmonton	x
	DIF	1	Chalk River	-
Chile	La Reina	1	Santiago	x
	Lo Aguirre	1	Santiago	x
China	HTGR	1	Nankou	-
Colombia	IAN-R1	1	Bogotá	x
Czech Republic	LR-O	1	Rez	x

State^a	Abbreviated name of facility	No. of units	Location	SA in force
	Univ. Training Reactor VR-1P	1	Prague	x
	VVR-S	1	Rez	x
Democratic People's Republic of Korea	Critical Assembly		Bungang-Ri, Nyongbyon	
	IRT	1	Bungang-Ri, Nyongbyon	x
Democratic Republic of the Congo	Triga II	1	Kinshasa	x
Denmark	DR-1	1	Roskilde	x
	DR-3	1	Roskilde	x
Egypt	RR-1	1	Inshas	x
	MPR	1	Inshas	-
Estonia	Paldiski reactor	1	Paldiski	-
Finland	FIR 1	1	Espoo	-
Germany	BER-2	1	Berlin	x
	FH-Furtwangen	1	Furtwangen	X
	FRM	1	Garching	x
	FRM-II	1	Garching	-
	GKSS-FRG1&FRG2	2	Geesthacht	x
	KFA-FRJ2	1	Jülich	X
	SUR 100	1	Hannover	X
	SUR 100 (FHK)	1	Kiel	X
	SUR 100 (FHU)	1	Ulm	X
	SUR 100 (UNIV)	1	Stuttgart	X
	SUR 100 (TUB)	1	Berlin	X
	SUR 100 (RWTH)	1	Aachen	X
	Tech. Univ. AKR	1	Dresden	X
	Tech. Hochschule ZLR	1	Zittau	X
	Triga	1	Mainz	X
Ghana	GHARR-1	1	Legon-Accra	x
Greece	GRR-1	1	Attiki	x
Hungary	Training reactor	1	Budapest	X
	WWR-S M 10	1	Budapest	x
Indonesia	PPNY	1	Yogyakarta	X
	RSG-GAS	1	Serpong	x
	P3TN	1	Bandung	x
Iran, Islamic Republic of	TRR	1	Tehran	X
	HWZPR	1	Esfahan	X
	MNSR	1	Esfahan	X
	LWSCR	1	Esfahan	X

State^a	Abbreviated name of facility	No. of units	Location	SA in force
Israel	IRR-1	1	Soreq	x
Italy	AGN-201	1	Palermo	X
	RTS-1	1	San Piero a Grado	X
	TAPIRO	1	Santa Maria di Galeria	X
	Triga-RC1	1	Santa Maria di Galeria	X
	Triga-2	1	Pavia	X
Jamaica	Centre for Nucl. Sciences	1	Kingston	x
Japan	DCA	1	Oarai-machi, Ibaraki-ken	X
	FCA	1	Tokai-Mura, Ibaraki-ken	X
	HTR	1	Kawasaki-shi, Kanagawa-ken	X
	HTTR	1	Higashi-gun, Ibaraki-ken	X
	JMTR	1	Higashi-gun, Ibaraki-ken	X
	JMTRCA	1	Higashi-gun, Ibaraki-ken	X
	JRR-2	1	Tokai-Mura, Ibaraki-ken	X
	JRR-3	1	Tokai-Mura, Ibaraki-ken	X
	JRR-4	1	Tokai-Mura, Ibaraki-ken	X
	Kinki University reactor	1	Higashiosaka-shi, Osaka-fu	X
	KUCA	3	Osaka	x
	KUR	1	Sennan-gun, Osaka	X
	Musashi reactor	1	Kawasaki-shi, Kanagawa-ken	X
	NCA	1	Kawasaki-shi	X
	NSRR	1	Tokai-Mura, Ibaraki-ken	X
	Rikkyo University R.R.	1	Nagasaka, Kanagawa-ken	X
	TCA	1	Tokai-Mura, Ibaraki-ken	X
	TODAI	1	Tokai-Mura, Ibaraki-ken	X
	TTR	1	Kawasaki-shi, Kanagawa-ken	X
	VHTRC	1	Tokai-Mura, Ibaraki-ken	X
Kazakhstan	Kurchatov test reactor	3	Semipalatinsk	-
	WWR-K	1	Almaty	-
Korea, Republic of	Kyunghee Univ.	1	Suwoon	x
	Hanaro	1	Taejon	x
Latvia	IRT	1	Riga	x
Libyan Arab Jamahiriya	IRT reactor	1	Tajura	x
Malaysia	Puspati	1	Bangi, Selangor	X
Mexico	Triga Mark III	1	Ocoyoacac	x
Netherlands	HOR	1	Delft	X
	HFR	1	Petten	X
	LFR	1	Petten	X
Nigeria	NIRR-1	1	Zaria	-
Norway	HBWR-Halden	1	Halden	X

State ^a	Abbreviated name of facility	No. of units	Location	SA in force
	JEEP-II	1	Kjeller	x
Pakistan	PARR-1	1	Rawalpindi	x
	PARR-2	1	Rawalpindi	x
Peru	RP-0	1	Lima	x
	RP-10	1	Lima	x
Philippines	PRR-1	1	Quezon City, Diliman	x
Poland	Agata and Anna	2	Swierk	x
	Ewa	1	Swierk	X
	Maria	1	Swierk	x
Portugal	RPI	1	Sacavem	x
Romania	Triga II	1	Pitești Colibași	x
	VVR-S	2	Magurele	x
Slovenia	Triga II	1	Ljubljana	x
South Africa	SAFARI-1	1	Pelindaba	x
Sweden	Studsvik RR	2	Studsvik	-
Switzerland	AGN 211P	1	Basel	X
	Crocus	1	Lausanne	X
	Proteus	1	Würenlingen	x
Syrian Arab Republic	MNSR	1	Damascus	x
Thailand	TRR-1	1	Bangkok	x
Turkey	Çekmece Nuclear Research and Training Centre	1	Istanbul	x
	ITU-TRR Triga Mark II	1	Istanbul	x
Ukraine	Kiev RR	1	Kiev	-
	IR-100 RR	1	Sevastopol	-
Uzbekistan	Photon	1	Tashkent	-
	WWR-SM	1	Tashkent	-
Venezuela	RV-I	1	Altos de Pipe	x
Vietnam	Da Lat Research Reactor	1	Da Lat, Lam Dong	x
Serbia and Monte negro	RA-RB	2	Vinca	x
Conversion plants, including pilot plants				
Argentina	UF ₆ production facility		Pilcaniyeu	-
	UO ₂ conversion plant		Córdoba	-
Canada	CAMECO		Port Hope	x
Chile	Lab. exper. de conversión		Santiago	x
Iran, Islamic Republic of	Uranium Chemistry Laboratory	1	Esfahan	-
	UCF	1	Esfahan	-
Japan	JCO		Tokai-Mura, Ibaraki-ken	x

State ^a	Abbreviated name of facility	No. of units	Location	SA in force
	Ningyo R&D		Tomata-gun, Okayama-ken	X
	PCDF		Tokai-Mura, Ibaraki-ken	x
Mexico	Fuel fabrication pilot plant		Salazar	x
Romania	UO ₂ powder fabrication plant		Feldioara	-
South Africa	Conversion plant		Pelindaba	x
	HEU-UF ₆ production plant		Pelindaba	x
Sweden	Ranstad Mineral		Ranstad	-
Fuel fabrication plants, including pilot plants				
Algeria	UDEC		Draria Nuclear Site	-
Argentina	Experimental plant		Constituyentes	-
	Fuel fabrication plant		Ezeiza	x
	Fuel fabrication plant		Constituyentes	x
	RR Fuel Fabrication plant		Ezeiza	x
Belgium	BN-MOX		Dessel	x
	FBFC		Dessel	x
	FBFC MOX		Dessel	-
Brazil	Fuel fabrication plant		Resende	x
Canada	CRNL fuel fabrication		Chalk River	x
	Fuel fabrication facility		Chalk River	x
	GEC, Inc.		Toronto	X
	GEC, Inc.		Peterborough	X
	Zircatec		Port Hope	x
Chile	UMF		Santiago	x
Democratic People's Republic of Korea	Nuclear fuel fabrication plant		Nyongbyon	-
Denmark	Metallurgy		Roskilde	x
Egypt	FMPP		Inshas	-
Germany	Adv. Nuclear Fuels		Lingen	x
	Siemens MOX		Hanau	x
India	Ceramic fuel fab. assembly area		Hyderabad	X
	EFFP-NFC		Hyderabad	X
Indonesia	Experimental fuel element installation (IEBE)		Serpong	X
	Research reactor fuel element production installation (IPEBRR)		Serpong	X
Iran, Islamic Rep. of	Fuel fabrication lab.		Esfahan	-
Italy	Fabnuc		Bosco Marengo	x
Japan	JNF		Yokosuka-shi, Kanagawa-ken	x

State^a	Abbreviated name of facility	No. of units	Location	SA in force
	MNF		Tokai-Mura, Ibaraki-ken	x
	NFI (Kumatori-1)		Sennan-gun, Osaka	x
	NFI (Kumatori-2)		Sennan-gun, Osaka	X
	NFI Tokai		Tokai-Mura, Ibaraki-ken	X
	PFPF		Tokai-Mura, Ibaraki-ken	X
	PPFF		Tokai-Mura, Ibaraki-ken	X
Kazakhstan	Ulbinski Metallurgical Works		Kamenogorsk	-
Korea, Republic of	KNFFP	2	Taejon	x
Romania	Romfuel		Pitești Colibasi	x
South Africa	LEU fuel fabrication		Pelindaba	x
	MTR fuel fabrication		Pelindaba	-
Spain	ENUSA fuel fabrication plant		Juzbado	-
Sweden	ABB		Västerås	x
Turkey	Nuclear Fuel pilot plant		Istanbul	x
Chemical reprocessing plants, including pilot plants				
Democratic People's Republic of Korea	Radiochemical Laboratory		Bungang-Ri, Nyongbyon	-
Germany	WAK		Eggenstein-Leopoldshafen	x
India	PREFRE		Tarapur	x
Italy	EURE		Saluggia	x
	ITREC-Trisaia		Rotondella	x
Japan	Tokai reprocessing plant		Tokai-Mura, Ibaraki-ken	x
	Rokkasho Reprocessing Plant		Kamikita-gun, Aomori-ken	x
<i>In addition, the following R&D facilities and locations are associated with reprocessing technology:</i>				
<i>Argentina</i>	<i>Lapep</i>		<i>Buenos Aires</i>	-
	<i>Fission products div.</i>		<i>Ezeira</i>	-
<i>Brazil</i>	<i>Reprocessing project</i>		<i>São Paulo</i>	-
<i>Indonesia</i>	<i>RMI</i>		<i>Serpong</i>	-
<i>Japan</i>	<i>SCF</i>		<i>Tokai-Mura, Ibaraki-ken</i>	X
	<i>JAERI Tokai R&D</i>		<i>Tokai-Mura, Ibaraki-ken</i>	X
	<i>JNC Tokai R&D</i>		<i>Tokai-Mura, Ibaraki-ken</i>	X
	<i>Sumitomi Met. Mining</i>		<i>Tokai-Mura, Ibaraki-ken</i>	X
Enrichment plants, including pilot plants				
Argentina	Pilcaniyeu enrichment plant		Pilcaniyeu	-
Brazil	Enrichment laboratory		Ipero	-
	Uranium enrichment pilot plant		São Paulo	-
	Laser spectroscopy lab.		San jose dos Campos	-
China	Shaanxi		Han Zhang	-

State ^a	Abbreviated name of facility	No. of units	Location	SA in force
Germany	UTA-1		Gronau	x
Japan	Uranium Enrichment Plant		Tomata-gun, Okayama-ken	x
	Rokkasho Enrichment Plant		Kamikita-gun, Aomori-ken	x
Iran, Islamic Republic of	PFEP		Natanz	-
Netherlands	URENCO		Almelo	x
United Kingdom	URENCO E22, E23 & A3 plant	3	Capenhurst	x
<i>In addition, the following R&D facilities and locations are associated with enrichment technology:</i>				
<i>Australia</i>	<i>Silex</i>		<i>Belo Horizonte</i>	-
<i>Brazil</i>	<i>UF₆ laboratory</i>			-
<i>Germany</i>	<i>Urenco</i>		<i>Jülich</i>	-
<i>Japan</i>	<i>Asahi Chemical Industry</i>		<i>Hyuga-shi, Miyazaki-ken</i>	X
	<i>Hitachi laboratory</i>		<i>Hitachi-shi, Ibaraki-ken</i>	X
	<i>JAERI Tokai R&D</i>		<i>Tokai-Mura, Ibaraki-ken</i>	X
	<i>NDC U-Lab.</i>		<i>Tokai-Mura, Ibaraki-ken</i>	X
	<i>JNC Tokai R&D</i>		<i>Tokai-Mura, Ibaraki-ken</i>	X
	<i>Toshiba R&D Centre</i>		<i>Kawasaki-shi, Kanagawa-ken</i>	X
	<i>CTF</i>		<i>Kitakami-gun, Amori-ken</i>	x
<i>Netherlands</i>	<i>Urenco</i>		<i>Almelo</i>	x
Separate storage facilities				
Argentina	Central store		Ezeiza	x
	Central store		Constituyentes	x
	DUE		Ezeiza	-
	Nuclear material store		Constituyentes	-
	Storage Bunker		Ezeiza	-
Armenia	Dry Spent Fuel Storage		Metsamor	-
Australia	Vault storage		Lucas Heights	x
Belgium	Belgoprocess		Dessel	x
	Elbel		Beveren	-
	Wet Store		Tihange	-
Brazil	Aramar stores (2 units)		Ipero	-
	UF ₆ production facility		São Paulo	-
Bulgaria	Long term storage		Kozloduy	x
Canada	Nuclear material		Chalk River	x
	Spent fuel canister store		Chalk River	x
	Douglas Point dry storage		Tiverton	x
	Gentilly-1		Gentilly	X
	Spent fuel storage		Chalk River	x
	Spent Fuel Storage		Chalk River Ontario	-

State^a	Abbreviated name of facility	No. of units	Location	SA in force
	ACEL Research		Pinawa	x
	PUFDSF		Pickering	x
	WUFDSP		Tiverton	-
Czech Republic	Storage Škoda		Bolevec	x
	HLW store		Rez	-
	ISFS Dukovany		Dukovany	x
Democratic People's Republic of Korea	Nuclear fuel storage		Bungang-Ri, Nyongbyon	-
Denmark	Risø Store		Roskilde	x
	Risø Waste		Roskilde	-
Finland	TVO-KPA store		Olkiluoto	-
France	Cogéma UP2 and UP3		La Hague	x
Georgia	Decom. IRT-M		Tbilisi	x
Germany	Bundeslager		Wolfgang	-
	Standort Zwischenlager		Lingen	-
	ANF UF ₆ Lager		Lingen	x
	KFA AVR BL		Jülich	-
	KFA AVR		Jülich	x
	BZA-Ahaus		Ahaus	-
	NCS-Lagerhalle		Hanau	-
	PTB Spaltstofflager		Hanau	-
	Energiewerke Nord GmbH		Lubmin	x
	Energiewerke Nord-ZLN		Lubmin	-
	Transportbehälterlager		Gorleben	-
	TR Halle 87		Rosendorf	-
	Kernmateriallager		Rosendorf	-
Hungary	Central radionuclide store		Budapest	x
	MVDS		Paks	x
India	AFR		Tarapur	x
Indonesia	TC and ISFSF		Serpong	-
Iran, Islamic Republic of	Karaj Waste Storage		Karaj	-
Iraq	Tuwaita, Location C		Tuwaita	-
Italy	Compes. deposito		Saluggia	x
	Essor nuclear plant		Ispra	-
	Essor storage		Ispra	x
	Research centre		Ispra	-
Japan	KUFFS		Kyoto	x
	Fukushima Dai-Ichi SFS		Futaba-gun, Fukushima-ken	X
Kazakhstan	Kurchatov Test Reactor		Kurchatov	-

State^a	Abbreviated name of facility	No. of units	Location	SA in force
	Ulbinski Thorium Storage		Kamenogorsk	-
	Kurchatov Thorium Storage		Semipalatinsk	-
Korea, Republic of	DUF 4 Conv.		Taejon	-
	NMSF		Taejon	-
Lithuania	Spent Fuel Dry Storage		Visaginas	-
Netherlands	Covra Store		Vlissingen	-
	Habog		Vlissingen	-
Pakistan	Hawks Bay depot		Karachi	x
Portugal	Inst. de Armazenagem		Sacavem	x
Romania	ISFS Cernavoda NPP		Cernavoda	x
Slovakia	AFRS		Bohunice	x
South Africa	Waste storage		Pelindaba	-
	Bulk storage facility		Pelindaba	x
	HEU storage vault		Pelindaba	x
	Thabana pipe store		Pelindaba	x
	Z - Plant		Pelindaba	x
	E – building		Valindaba	-
	Koeberg Castor Storage Facility		Cape Town	
Spain	Trillo		Trillo	
Sweden	Central long term storage		Oskarshamn	-
Switzerland	Saphir		Wuerenlingen	x
	Zwilag		Wuerenlingen	-
Ukraine	Chernobyl storage		Chernobyl	-
	Zaporoshe SFS		Energodar	-
	Khmenitski FF Storage		Neteshin	x
	Rovno FF Storage		Kuznetsovsk	x
	Sth Ukraine FF Storage		Yushnoukrainsk	x
	Zaporoshe FF Storage		Energodar	-
United Kingdom	Special nuclear material store 9		Sellafield	x
	Thorp Plutonium Store		Sellafield	-
United States of America	Pu storage vault		Hanford	-
	Y-12 plant		Oak Ridge	x
	KAMS storage		Savannah River	
Other facilities				
Algeria	AURES 1		Ain Oussara	-
	Es Salam reactor		Ain Oussara	-
Argentina	Alpha facility		Constituyentes	-
	Experimental UO ₂ plant		Cordoba	-

State^a	Abbreviated name of facility	No. of units	Location	SA in force
	Enriched uranium lab		Ezeiza	-
	Fission products div.		Ezeiza	x
	Fuel fabrication plant		Ezeiza	x
	LFR		Buenos Aires	-
	Uranium powder fab. plant		Constituyentes	-
	Triple Altura Lab.		Ezeiza	-
	LAPEP		Buenos Aires	
Australia	Research Lab.		Lucas Heights	x
Belgium	IRMM-Geel		Geel	x
	CEN-Labo		Mol	x
	CEN-Waste		Dessel	-
	I.R.E.		Fleurus	x
	CEN-lab. Pu		Mol	x
Brazil	Fuel tech. co-ord. unit		São Paulo	x
	Isotope laboratory		São Paulo	-
	Metal. uran. project		São Paulo	-
	Nuclear material lab.		Ipero	-
	Nuclear fuel & instr. dev. lab.		São Paulo	-
	Reconversion project		São Paulo	-
	Reprocessing project		São Paulo	x
	Safeguards store		São Paulo	x
Czech Republic	Nuclear Fuel Inst. (UJP)		Zbraslav	x
	Research Laboratories		Rez	x
Democratic People's Republic of Korea	Subcritical assembly		Pyongyang	x
Estonia	Balti ES		Narva	-
Georgia	Subcritical Assembly		Tbilisi	-
	Sukhumi Institute		Sukhumi	-
Germany	KFA-heisse Zellen		Jülich	x
	KFA Lab.		Jülich	X
	Transuran		Eggenstein-Leopoldshafen	x
Hungary	Institute of Isotopes		Budapest	x
Indonesia	RMI		Serpong	x
Iran, Islamic Republic of	JHL		Tehran	-
Italy	CNEN-LAB. PU.		Santa Maria di Galeria	x
Japan	JAERI-Oarai R&D		Higashi-gun, Ibaraki-ken	x
	JAERI-Tokai R&D		Tokai-Mura, Ibaraki-ken	x
	Kumatori R&D		Sennan-gun, Osaka	x
	NDC Fuel Hot Lab.		Tokai-Mura, Ibaraki-ken	x

State ^a	Abbreviated name of facility	No. of units	Location	SA in force
	NERL, University of Tokyo		Tokai-Mura, Ibaraki-ken	X
	NFD		Higashi-gun, Ibaraki-ken	X
	NFI Tokai-2		Tokai-Mura, Ibaraki-ken	X
	NRF Neutron Radiation Facility		Tsukuba-shi, Ibaraki-ken	X
	SCF		Tokai-Mura, Ibaraki-ken	X
	Uranium Material Laboratory		Higashi-gun, Ibaraki-ken	
Korea, Republic of	PIEF		Taejon	x
	Acrylonitrile plant		Ulsan	X
	DFDF		Taejon	x
	HFFL		Taejon	X
	IMEF		Taejon	x
	KAERI R&D		Taejon	-
Libya	Tajura Uranium R&D Facility		Tajura	-
Netherlands	ECN and JRC		Petten	x
Norway	Research laboratories		Kjeller	x
Poland	Institute for Nuclear Chemistry and Engineering		Warsaw	-
	Institute of Nuclear Research		Swierk	x
South Africa	Decommissioned pilot enrichment plant		Pelindaba	x
	Decontamination and waste recovery		Pelindaba	x
	Hot Cell Complex		Pelindaba	x
	NU and DU metals plant		Pelindaba	x
Spain	ENRESA		El Cabril	-
Switzerland	EIR		Würenlingen	x
	CERN		Geneva	x
Turkey	Nuclear fuel pilot plant		Istanbul	x
Ukraine	Chernobyl unit 4 shelter		Chernobyl	-
	KHFTI		Kharkov	-
	Sevastopol subcritical assembly		Sevastopol	-
	IR-100 RR		Sevastopol	-
United States of America	BWXT Facility 179		Lynchburg, VA	-

Non-nuclear installations

^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.

Note: The Agency was also applying safeguards in Taiwan, China, at eight power reactors, four research reactors/critical assemblies, one uranium pilot conversion plant, one fuel fabrication plant, one storage facility and one R&D facility.

Table A21. Coordinated Research Projects Initiated in 2004

Nuclear Fuel Cycle and Materials Technologies

Spent fuel performance assessment and research (SPAR II) (2004–2009)

Nuclear Science

CRP on QA/QC test procedures in nuclear instruments (2005–2008)

Development of new techniques and applications of accelerator mass spectrometry (2004–2008)

Ion beam modification of insulators (2004–2008)

Food and Agriculture

Development of mass rearing for New World (*Anastrepha*) and Asian (*Bactrocera*) fruit fly pest in support of SIT (2004-2009)

Efficiency of sample processing for analysis of food contaminants (2002–2006)

Evaluate the effectiveness of irradiation to ensure the safety and quality of prepared meals (2002–2006)

Gene based technologies in livestock breeding: Characterization of small ruminant genetic resources in Asia (2004-2009)

Identification and pyramiding of mutated genes: novel approaches for improving crop tolerance to salinity and drought (2004-2009)

Improving sterile male performance in fruit fly SIT programmes (2004-2009)

Integrated soil, water and nutrient management in conservation agriculture (2004-2009)

Pyramiding of mutated genes contributing to crop quality and resistance to stress affecting quality (2004-2009)

Quality control of pesticide products (2001–2006).

Human Health

Development and quality control of hospital prepared radiopharmaceuticals for infection imaging for use in HIV/AIDS positive patients (2004–2007)

Development of procedures for in vivo dosimetry in radiotherapy (2004–2007)

Development of procedures for quality assurance for dosimetry calculations in radiotherapy (2004–2008)

Evaluation of a single utilization of pulmonary perfusion scintigraphy in patients with suspected pulmonary embolism (2004-2007)

Harmonization of quality practices for nuclear medicine radioactivity measurements (2004–2008)

Radiobiological and clinical study on viral-induced cancers response to radiotherapy (2004–2010)

Standardization and quality control of in-house prepared radiopharmaceuticals for nuclear oncology (2004–2008)

Water Resources

Isotope methods for the study of water and carbon cycle dynamics in the atmosphere and biosphere (2004–2008)

Isotopic age and composition of stream flow as indicators of groundwater sustainability (2004–2010)

Protection of the Marine and Terrestrial Environment

Nuclear and isotopic studies of El Niño phenomenon in the ocean

Nuclear and isotopic techniques for the characterization of submarine groundwater discharge (SGD) in coastal zones

Physical and Chemical Applications

Applications of nuclear analytical techniques to investigate the authenticity of art objects (2004–2008)

Development of generator technologies for therapeutic radionuclides (2004–2008)

Electron beam treatment of organic pollutants contained in gaseous streams (2004–2008)

Validation of tracers and software for inter-well investigations (2004–2008)

Safety of Nuclear Installations

Probabilistic safety assessment of nuclear facilities in relation to external events (2005–2009)

Management of Radioactive Waste

Innovative versus adaptive technologies in decommissioning of nuclear facilities (2004–2009)

Table A22. Coordinated Research Projects completed in 2004

Nuclear Power

Establishment of a thermo physical properties database for LWRs and HWRs. (1998–2004).

Optimization of the coupling of nuclear reactors and desalination system (1998-2003)

Nuclear Science

Development and practical utilization of small angle neutron scattering (SANS) applications (2000-2004)

Food and Agriculture

Assessment of the effectiveness of vaccination strategies against Newcastle Disease and Gumboro Disease using immunoassay-based technologies for increasing farmyard poultry production in Africa (1998-2004).

To develop and validate standardized methods for using polymerase chain reaction (PCR) and related molecular technologies for rapid and improved animal disease diagnosis (1997-2004).

Mutational analysis of root characters in annual food plants related to plant performance (1999-2004).

Human Health

Development of techniques at SSDLs for the dissemination of absorbed dose to water standards (2001-2004).

Health impacts of mercury cycling in contaminated environments studied by nuclear techniques (1999-2004).

Study of the relationship between recurrent lower respiratory tract infection, gastroesophageal reflux and bronchial asthma in children (1999-2004).

To compare clinical application software between nuclear medicine laboratories by software phantoms developed by the Agency and COST B2 project. (1999-2004).

Water Resources

Isotopic composition of precipitation in the Mediterranean Basin in relation to air circulation patterns and climate (2000-2004).

Physical and Chemical Applications

Development and validation of speciation analysis using nuclear techniques (2001-2004).

Integration of residence time distribution (RTD) tracing with computational fluid dynamics (CFD) simulation for industrial process visualization and optimization (2001-2004).

Safety of Nuclear Installations

Expanding and updating IAEA reliability database for research reactors (1999-2004).

Guidelines for Prediction of irradiation Embrittlement of Operating WWER-440 Reactor Pressure Vessels (2001-2004).

Management of Radioactive Waste

Anthropogenic analogues for geological disposal of high-level and long lived radioactive waste (1999-2004).

Technologies for the long-term stabilization and isolation of uranium mill tailings (2000-2004).

Table A23. Training Courses, Seminars and Workshops in 2004

FUNDED BY THE REGULAR BUDGET

Nuclear Fuel Cycle and Materials Technologies

Workshop on long term storage of spent fuel, Slovenia

Capacity Building and Nuclear Knowledge Maintenance for Sustainable Energy Development

Training meeting/workshop to train teachers on the IAEA's energy model MESSAGE for elaborating sustainable energy strategies, Vienna

Training workshop on evaluating external costs of human health and environmental impacts for nuclear power and other energy sources using the IAEA's Simplified Approach for Estimating Impacts of Electricity Generation (SIMPACTS) model, USA

Workshop on "Wien Automatic System Planning Package" (WASP), Vienna

Nuclear Science

Workshop on cask design, Brazil

Workshop on nuclear instrumentation, Vienna

Workshop on nuclear reaction data and nuclear reactors: Physics, design and safety, Abdus Salam ICTP

Food and Agriculture

Application of irradiation for sanitary and phytosanitary purposes, Thailand

Course on molecular diagnostics and PCR, South Africa

Course on pesticide residue laboratories, Agency's Laboratories, Seibersdorf

FAO/IAEA interregional training course on molecular methods in animal genetics and breeding, Agency's Laboratories, Seibersdorf

FAO/IAEA interregional workshop on molecular methods for the quantitation of rumen microorganisms, Australia

Food irradiation in the industry, Uruguay

INFOCRIS and emergency planning, Vienna; Italy

National course on good irradiation practices/HACCP, Thailand

Training workshop on equipment handling and quality management in pesticide residue analysis, Sri Lanka

Workshop on aflatoxin, ochratoxin A, vomitoxin and fumonisins analysis, Senegal

Workshop on best management practice and quality control/quality management in pesticide residue analysis, Syrian Arab Republic

Workshop on introduction and implementation of principles of Good Agriculture Practices (GAP) in the production of fresh fruits and vegetables, Kenya

Workshop on quality assurance for irradiation facilities and quality control and management of food irradiation facilities, China

Workshop on the use of irradiation to improve food safety, Argentina

Human Health

Workshop on stable isotope techniques in nutrition: Focus on iron and vitamin A, Peru

Water Resources

IAEA–ESCAP training workshop on the development of effective management and decision making tools for mitigation of contamination of soils and water in the greater Mekong subregion, Thailand

IAEA–UNESCO/JIIHP course on the use of isotope techniques for managing artificial recharge, Egypt

Joint IAEA/JRF course on isotope hydrology: Principles, applications, data interpretation, field studies and laboratory techniques, Austria

Workshop on infrared spectroscopy, Netherlands

Protection of the Marine and Terrestrial Environment

Course on sampling protocols for marine radioactivity assessment in the southern Mediterranean Sea, Algeria; Egypt; Libyan Arab Jamahiriya; Tunisia

PERSGA advanced course for designing and implementing regional monitoring programme for marine pollution, IAEA-MEL

ROPME course on the analysis trace metals biological and sediment samples, Saudi Arabia

ROPME course on the determination petroleum hydrocarbon and chlorinated pesticides in marine environment, Saudi Arabia

UNEP–MEDPOL course on the analysis of chlorinated pesticides and PCB marine matrices, IAEA-MEL

UNEP–MEDPOL course on the analysis of metals in the marine environment, IAEA-MEL

Workshop on strengthening marine contamination monitoring nuclear techniques, Panama

Radiation and Transport Safety

Regional workshop for senior government officials on working towards following the guidance in the Code of Conduct on the Safety and Security of Radioactive Sources, Vienna

Safeguards

Course on implementation of State systems of accounting for and control of nuclear material (SSAC), Russian Federation

Executive Management, Policy-Making and Coordination

NGO Forum: Nuclear verification and nuclear fuel cycle, Headquarters

Regional seminar for the Economic Community of West African States (ECOWAS) on the non-proliferation of nuclear weapons, Burkina Faso

Regional seminar for the South African Development Community (SADC) States on the non-proliferation of nuclear weapons, Namibia

Multilateral verification of nuclear non-proliferation undertakings, Headquarters

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Nuclear Fuel Cycle and Material Technologies

CEG workshop on environmental impact and risk assessment as applied to the dismantling of nuclear submarines and the remediation of sites, United Kingdom

CEG workshop on technologies for radwaste management at isolated sites, Netherlands

Capacity Building and Nuclear Knowledge Maintenance for Sustainable Energy Development

IAEA/ICTP workshop on designing sustainable energy systems, Trieste

Managing nuclear knowledge, Trieste

Nuclear Science

National course on water chemistry of research reactors, Indonesia

Food and Agriculture

Course on gene based technologies in livestock breeding: Characterization of small ruminant genetic resources in Asia, Kenya

Course on screening and confirmatory methodologies for veterinary drug residues, Australia

Workshop on food safety requirements for the international market, Chile

Safety of Nuclear Installations

Advanced PSA modelling techniques with emphasis on human reliability analysis, Ukraine

Application of the code of conduct on the safety of research reactors, USA

Basic professional training course in nuclear safety, Indonesia, Vietnam

Best estimate code calculations including uncertainties, Slovenia

Communicating nuclear safety issues to the public and media, Germany

Deterministic and probabilistic methods to enhance event investigation, Hungary

Education and training in nuclear safety, Japan

Engineering safety assessment, Russian Federation

Fire protection for research reactors, Thailand

Inspection fundamentals and principles, Bulgaria

Inspection service for research reactors, Indonesia

Maintenance and surveillance programmes at nuclear power plants, China

Methodology, organization and materials for training courses in nuclear safety, USA

New requirements on safety of nuclear power plants, Czech Republic

OSART Seminar, China, Czech Republic, Germany, Netherlands, Pakistan, Russian Federation, USA

Plant life extension and long term operation, Czech Republic

Practical aspects of in-service inspection qualification, Czech Republic

Probabilistic safety assessment fundamentals and modelling techniques, Pakistan

Protection of nuclear installations against sabotage, Brazil, China, Germany

Reactor containment, Pakistan

Refresher course on nuclear safety, Thailand

Regulatory body inspection practice of research reactors, Egypt

Regulatory control effectiveness in energy market deregulation, Hungary

Regulatory control of nuclear power plants, Germany

Regulatory supervision of a TRIGA research reactor, Malaysia

Safe commissioning of nuclear power plants, Ukraine

Safety assessment of nuclear power plants to assist decision making, Spain

Safety demonstration and market potential for high temperature gas cooled reactors, China
Safety performance indicators for nuclear power plants, China
Seismic qualification of the Bushehr nuclear power plant on the basis of ASE input, Islamic Republic of Iran
Selected safety issues in the life extension process, Hungary
Self-assessment of operational safety and safety culture at nuclear power plants of the Russian Federation, Russian Federation
Specialist operational assessment techniques, China
Thermal hydraulics safety analysis of research reactors, Indonesia
Use of consultants' services and technical support organizations by national nuclear regulatory authorities, Slovakia
Verification of defence in depth for existing nuclear power plants, Czech Republic
Verification of defence in depth in design and operation of nuclear power plants, Czech Republic

Radiation and Transport Safety

Authorization and inspection of radiation sources in nuclear gauges and well logging, Indonesia
Control of public exposure from environmental radioactivity, Czech Republic
Determination of occupational exposure due to radionuclide incorporation, Brazil
Development of national strategies for improving control over radioactive sources, Ghana; India
ISOE workshop on occupational exposure management at NPPs, France
Medical management for radiation accidents, Japan
Occupational radiation protection, Philippines
Organization and implementation of a national regulatory programme for the control of radiation sources, The Former Yugoslav Republic of Macedonia
Postgraduate educational course on radiation protection and the safety of radiation sources, Belarus, Malaysia
Public information procedures for nuclear emergency situations, Brazil
Radiation protection in industrial radiography, Georgia
Radiation protection in the oil and gas industry, Indonesia
Radiological issues in Iraq, Jordan
Regional aspects of optimization of occupational radiation protection in NPPs, Lithuania
Regional trainers' meeting on radiation protection in medicine, Thailand
Regulatory Authority Information System (RAIS 3.0), Ghana, India, Russian Federation, Turkey
Search, identification, recovery and control of radioactive sources, Russian Federation
Train-the-trainer on monitoring during a nuclear or radiological emergency, Ukraine

Management of Radioactive Waste

Application of safety assessment methodologies for derivation of activity limits for near-surface disposal facilities, Russian Federation
Decommissioning characterization survey held for the China Institute of Atomic Energy, China
Decommissioning of NPPs, Spain
Planning for decommissioning, Armenia
Safety assessment in the licensing of near radioactive waste disposal facilities, Bulgaria

Safety of radioactive waste management, Turkey, United Republic of Tanzania

Nuclear Security

Combating illicit trafficking of nuclear and radioactive materials at borders, Serbia and Montenegro, Turkey

Design basis threat, Brazil, Bulgaria, Islamic Republic of Iran, Mexico, Peru, Philippines

Detection, identification and response to illicit trafficking in nuclear and radioactive materials for front line officers, United Republic of Tanzania

Equipment training for front line officers to combat illicit trafficking of nuclear and radioactive materials, Azerbaijan

Illicit trafficking equipment, Belarus

National awareness building to combat illicit trafficking of nuclear and radioactive materials, Georgia

Nuclear security for managers and decision makers, USA

Physical protection of nuclear installations, India

Practical operation of physical protection systems, Russian Federation

Protection of nuclear facilities against sabotage, China

Radiological issues in Iraq, Jordan

Response to nuclear terrorism, Romania

Security of radioactive sources, Algeria, Namibia

Safeguards

8th safeguards training course, Japan

Additional protocol seminar, Switzerland

Course on IAEA safeguards activities for the SSAC of South Africa

Course on IAEA safeguards activities, Kazakhstan

National course on safeguards and additional protocol, Indonesia

Regional course on national safeguards and the additional protocol, Australia

Workshop on nuclear material accounting and control at facilities, China

Workshop on radiation measurement techniques for safeguards inspection, Japan

Public Information and Communication

IAEA workshop for nuclear communicators, Canada; Spain

IAEA workshop on issues and challenges for nuclear communicators, Republic of Korea

Seminar for Japanese journalists, Headquarters

Table A24. Publications issued in 2004

Nuclear Power

Construction and Commissioning Experience of Evolutionary Water Cooled Nuclear Power Plants, IAEA-TECDOC-1390

Country Nuclear Power Profiles, 2003 edition (IAEA-CNPP/2003/CD; IAEA-CNPP/2003/P)

Development of Instructors for Nuclear Power Plant Personnel Training, IAEA-TECDOC-1392

Fifty Years of Nuclear Power — The Next Fifty Years, IAEA-CN-114, CD-ROM

Improvement of In-Service Inspection in Nuclear Power Plants; IAEA-TECDOC-1400

INDAG Newsletter No. 4, September 2004

Intercomparison and Validation of Computer Codes for Thermohydraulic Safety Analysis of Heavy Water Reactors, IAEA-TECDOC-1395

International Outage Coding System for Nuclear Power Plants, IAEA-TECDOC-1393

International Project on Innovative Nuclear Reactors and Fuel Cycles (INPRO), IAEA-INPRO

Management of Life Cycle and Ageing at Nuclear Power Plants: Improved I&C Maintenance, IAEA-TECDOC-1402

Managing Modernization of Nuclear Power Plant Instrumentation and Control Systems, IAEA-TECDOC-1389

Methodology for the Assessment of Innovative Nuclear Reactors and Fuel Cycles: Report of Phase 1B (First Part) of the International Project on Innovative Nuclear Reactors and Fuel Cycles (INPRO), IAEA-TECDOC-1434

Nuclear Power Reactors in the World, IAEA-RDS-2/24

Operating experience with Nuclear Power Plants in Member States, STI/PUB/1219

Operational and Decommissioning Experience with Fast Reactors, IAEA-TECDOC-1405

Primary Coolant Pipe Rupture Event in Liquid Metal Cooled Reactors, IAEA-TECDOC-1406

Status of Advanced Light Water Reactor Designs 2004, IAEA-TECDOC-1391 and IAEA-TECDOC-CD-1391

The Nuclear Power Industry's Ageing Workforce: Transfer of Knowledge to the Next Generation, IAEA-TECDOC-1399

Use of Control Room Simulators for Training of Nuclear Power Plant Personnel, IAEA-TECDOC-1411

WWER-440 Fuel Rod Experiments under Simulated Dry Storage Conditions, IAEA-TECDOC-CD-1385

Nuclear Fuel Cycle and Materials Technologies

Advanced Fuel Pellet Materials and Designs for Water Cooled Reactors, IAEA-TECDOC-1416

Delayed Hydride Cracking in Zirconium Alloys in Pressure Tube Nuclear Reactors, IAEA-TECDOC-1410

Recent Developments in Uranium Resources and Production with Emphasis on In Situ Leach Mining, IAEA-TECDOC-1396

Treatment of Liquid Effluent from Uranium Mines and Mills, IAEA-TECDOC-1419

Uranium 2003: Resources, Production and Demand, 2004 update published by OECD

WWER-440 Fuel Rod Experiments under Simulated Dry Storage Conditions, IAEA-TECDOC-CD-1385

Capacity Building and Nuclear Knowledge Maintenance for Sustainable Energy Development

Energy and Nuclear Power Planning Study for Armenia, IAEA-TECDOC-1404

Energy Supply Options for Lithuania, IAEA-TECDOC-1408

Energy, Electricity and Nuclear Power Estimates for the period up to 2030, 2004 Edition, Reference Data Series No. 1 (IAEA-RDS-1/24)

INIS: Authority List for Journal Titles, IAEA-INIS-11 (Rev. 30)

Joint Thesaurus Part I (A-L) and Part II (M-Z), IAEA-ETDE/INIS-1 (Rev. 1)

Nuclear Science

IAEA Nuclear Data Newsletter, Issue No. 37 April 2004, Issue No. 38, Sept 2004

Ion Beam Techniques for the Analysis of Light Elements in Thin Films, Including Depth Profiling, IAEA-TECDOC-1409

ITER ITA Newsletter, No. 12, January 2004 No. 13 February 2004, No. 14 March 2004, No. 15 April-May 2004, No. 16 June/July/August 2004, No. 17 September 2004, No. 18 October/November/December 2004

X-Ray Fluorescence in the IAEA and its Member States, Newsletter No. 7, April 2004, No. 8, October 2004

Food and Agriculture

Animal Production and Health Newsletter, No. 39, January 2004, No. 40, June 2004, No. 41, December 2004

Biology, History, Threat, Surveillance and Control of the Cactus Moth, *Cactoblastis cactorum*, IAEA/FAO-BSC/CM

Estimation of Microbial Protein Supply in Ruminants using Urinary Purine Derivatives

Genetic Improvement of Under-utilized and Neglected Crops in Low Income Food Deficit Countries through Irradiation and Related Techniques, IAEA-TECDOC-1426

Insect Pest Control Newsletter, Issue No. 62, No. 63

Irradiation as a Phytosanitary Treatment of Food and Agriculture Commodities; IAEA-TECDOC-1427

Quantification of tannins in tree and shrub foliage: A laboratory Manual; ISBN 1-4020-16032-8

Soils Newsletter Vol. 27 No. 1, Vol. 27 No. 2

Human Health

Commissioning and Quality Assurance of Computerized Planning Systems for Radiation Treatment of Cancer, Technical Reports Series No. 430

Low Cost Options for Tissue Culture Technology in Developing Countries, IAEA-TECDOC-1384

SSDL Newsletter Issue No. 49, May 2004

Water Resources

Isotope Hydrology- Learning, Teaching and Applying Isotope Techniques in Hydrology, IAEA-IHLS/CD

Use of Isotope and Radiation Methods in Soil and Water Management and Crop Nutrition, IAEA-SWCN

Protection of the Marine and Terrestrial Environment

Quantifying Uncertainty in Nuclear Analytical Measurements, IAEA-TECDOC-1401

Physical and Chemical Applications

Advances in Radiation Chemistry of Polymers, IAEA-TECDOC-1420

Analytical Applications of Nuclear Techniques, STI/PUB/1181

Development of ^{99m}Tc Agents for Imaging Central Neural Systems Receptors, Technical Reports Series No. 426

Development of Kits for ^{99m}Tc Radiopharmaceuticals for Infection Imaging, IAEA-TECDOC-1414

Directory of Gamma Processing Facilities in Member States, DGPF/CD

Emerging Applications of Radiation Processing, IAEA-TECDOC-1386

Integration of Tracing with Computational Fluid Dynamics for Industrial Process Investigation, IAEA-TECDOC-1412

Isotopic and Nuclear Analytical Techniques for Health and Environment, C&S Papers CD Series No. 22, IAEA-CSP-22/CD

Quality System Implementation for Nuclear Analytical Techniques, IAEA-TCS-24

Radiation Processing of Polysaccharides, IAEA-TECDOC-1422

Radioisotope Handling Facilities and Automation of Radioisotope Production, IAEA-TECDOC-1430

Radiotracer Applications in Industry — A Guidebook, Technical Reports Series No. 423

Soil Sampling for Environmental Contaminants, IAEA-TECDOC-1415

Standardized High Current Solid Targets for Cyclotron Production of Diagnostic and Therapeutic Radionuclides, Technical Reports Series No. 432

Status of Industrial Scale Radiation Treatment of Wastewater and Its Future, IAEA-TECDOC-1407

Safety of Nuclear Installations

Design of Emergency Power Systems for Nuclear Power Plants, Safety Standards Series No. NS-G-1.8

Design of Reactor Containment Systems for Nuclear Power Plants, Safety Standards Series No. NS-G-1.10

Design of the Reactor Coolant System and Associated Systems in Nuclear Power Plants, Safety Standards Series No. NS-G-1.9

Experience Gained from Fires in Nuclear Power Plants: Lessons Learned, IAEA-TECDOC-1421

External Events Excluding Earthquakes in the Design of Nuclear Power Plants, Safety Standards Series No. NS-G-1.5

Extrabudgetary Programme on the Safety Aspects of Long Term Operation of Water Moderated Reactors: Standard Review Process, Revision 1, IAEA-EBP-LTO-03

Flood Hazard for Nuclear Power Plants on Coastal and River Sites, Safety Standards Series No. NS-G-3.5

Format and Content of the Safety Analysis Report for Nuclear Power Plants, Safety Standards Series No. GS-G-4.1

Implementation of Accident Management Programmes in Nuclear Power Plants, Safety Reports Series No. 32

Implications of Power Uprates on Safety Margins of Nuclear Power Plants, IAEA-TECDOC-1418

Precursor Analyses: The Use of Deterministic and PSA Based Methods in the Event Investigation Process at Nuclear Power Plants, IAEA-TECDOC-1417

Programme QA Manual for Document Handling, IAEA-EBP-LTO-11

Programme's Working Groups Workplans, IAEA-EBP-LTO-08

Protection against Internal Fires and Explosions in the Design of Nuclear Power Plants, Safety Standards Series No. NS-G-1.7

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Safety Considerations for Research Reactors in Extended Shutdown, IAEA-TECDOC-1387

Use of Computational Fluid Dynamics Codes for Safety Analysis of Nuclear Reactor Systems; IAEA-TECDOC-1379

Radiation and Transport Safety

Accidental Overexposure of Radiotherapy Patients in Bialystok, STI/PUB/1180

Appraisal for France of the Safety of the Transport of Radioactive Material, IAEA Safety Standards Applications — TranSAS-6

Appraisal for Panama of the Safety of the Transport of Radioactive Material, IAEA Safety Standards Applications — TranSAS-5

Appraisal for Turkey of the Safety of the Transport of Radioactive Material; IAEA Safety Standards Applications — TranSAS-4

Code of Conduct on the Safety and Security of Radioactive Sources, IAEA/CODEOC/2004

Directory of National Competent Authorities' Approval Certificates for Package Design, Special Form Material and Shipment of Radioactive Material, 2004 Edition, IAEA-TECDOC-1424

Emergency Notification and Assistance, Technical Operations Manual, EPR/ENATOM(2004)

Health Effects and Medical Surveillance, IAEA-PRTM-3 (Rev. 1)

Implications of Partitioning and Transmutation in Radioactive Waste Management, Technical Reports Series No. 435

Individual Monitoring, IAEA-PRTM-2 (Rev. 1)

International Basic Safety Standards for Protection against Ionizing Radiation and for the Safety of Radiation Sources (CD-ROM edition), IAEA Safety Series No. 115/CD

Joint Radiation Emergency Management Plan of the International Organizations, EPR-JPLAN(2004)

Methods for Assessing Occupational Radiation Doses due to Intakes of Radionuclides, Safety Reports Series No. 37

National Competent Authorities Responsible for Approvals and Authorizations in Respect of the Transport of Radioactive Material, IAEA-NCAL-35 List No. 35 (2004 Edition)

National Infrastructures for Radiation Safety: Towards Effective and Sustainable Systems, Proceedings of an International Conference, Rabat Proceedings Series

Occupational Radiation Protection in the Mining and Processing of Raw Materials, Safety Standards Series No. RS-G-1.6

Optimization of the Radiological Protection of Patients Undergoing Radiography, Fluoroscopy and Computed Tomography, IAEA-TECDOC-1423

Personal Protective Equipment, IAEA-PRTM-5

Radiation Protection against Radon in Workplaces other than Mines; Safety Reports Series No. 33

Radiation Protection and the Management of Radioactive Waste in the Oil and Gas Industry; Safety Reports Series No. 34

Regulations for the Safe Transport of Radioactive Material, 1996 Edition (As Amended 2003), Safety Standards Series No. TS-R-1

Safety of Transport of Radioactive Material, Proceedings of an International Conference, Vienna, 2003 (including CD-ROM), Proceedings Series

Strengthening Control over Radioactive Sources in Authorized Use and Regaining Control over Orphan Sources: National Strategies, IAEA-TECDOC-1388

The Radiological Accident in Cochabamba

Training for Regulators on Authorization and Inspection of Radiation Sources (six CD-ROMs), IAEA-AIRS

Workplace Monitoring for Radiation and Contamination, IAEA-PRTM-1 (Rev. 1)

Management of Radioactive Waste

An International Peer Review of the Licence Application for the Australian Near Surface Radioactive Waste Disposal Facility, IAEA-AUS

Application of Membrane Technologies for Liquid Radioactive Waste Processing; Technical Reports Series No. 431,

Application of the Concepts of Exclusion, Exemption and Clearance, Safety Standards Series No. RS-G-1.7

Derivation of Activity Limits for the Disposal of Radioactive Waste in Near Surface Disposal Facilities, IAEA-TECDOC-1380

Developing Multinational Radioactive Waste Repositories: Infrastructural Framework and Scenarios of Cooperation, IAEA-TECDOC-1413

Issues and Trends in Radioactive Waste Management, Proceedings of an International Conference, Vienna, 2004, Proceedings Series

Long Term Behaviour of Low and Intermediate Level Waste Packages under Repository Conditions, IAEA-TECDOC-1397

Management of Waste Containing Tritium and Carbon-14, Technical Reports Series No. 421

Planning, Managing and Organizing the Decommissioning of Nuclear Facilities: Lessons Learned, IAEA-TECDOC-1394

Predisposal Management of Organic Radioactive Waste; Technical Reports Series No. 427

Records for Radioactive Waste Management up to Repository Closure: Managing the Primary Level Information (PLI) Set, IAEA-TECDOC-1398

Remediation of Sites with Dispersed Radioactive Contamination, Technical Reports Series No. 424

Safety Assessment Methodologies for Near Surface Disposal Facilities, IAEA-ISAM-1

Safety Considerations in the Transition from Operation to Decommissioning of Nuclear Facilities, Safety Reports Series No. 36

Sediment Distribution Coefficients and Concentration Factors for Biota in the Marine Environment; Technical Reports Series No. 422

Status of the Decommissioning of Nuclear Facilities around the World

Surveillance and Monitoring of Near Surface Disposal Facilities for Radioactive Waste; Safety Reports Series No. 35

Testing of Environmental Transfer Models Using Data from the Remediation of a Radium Extraction Site, IAEA-BIOMASS-7

The Long Term Stabilization of Uranium Mill Tailings, IAEA-TECDOC-1403

Transition from Operation to Decommissioning of Nuclear Installations, Technical Reports Series No. 420,

Nuclear Security

Response to Events Involving the Inadvertent Movement or Illicit Trafficking of Radioactive Materials, IAEA-TECDOC-1313

Safeguards

Guidelines and Format for Preparation and Submission of Declarations Pursuant to Articles 2 and 3 of the Model Protocol Additional to Safeguards Agreements, IAEA-SVS-11

Information Support Services

Inspection Tools and IAEA Roles, Fact sheets

IAEA Bulletin

Meetings on Atomic Energy