



INTERNATIONAL ATOMIC ENERGY AGENCY



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IAEA-CPS-95/20
19 October 1995
Original: ENGLISH

COUNTRY PROGRAMME SUMMARY

**THE AGENCY'S TECHNICAL CO-OPERATION
PROGRAMME WITH THE
REPUBLIC OF KOREA**

1985 - 1995

COUNTRY PROGRAMME SUMMARIES

DEPARTMENT OF TECHNICAL CO-OPERATION

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EVALUATION SECTION

DEPARTMENT OF TECHNICAL CO-OPERATION

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1985 - 1995
COUNTRY PROGRAMME SUMMARIES**

This report contains a review of the Agency's technical co-operation activities in the Republic of Korea carried out during 1985 - 1995. In terms of coverage and analytical depth, country programme summaries stand somewhere midway between in-depth country programme evaluations and individual project evaluations. They attempt to provide a comprehensive, descriptive picture of the Agency's co-operation with a Member State in a manner that will be particularly useful for programming decisions. The attempt is very much to describe -- largely through statistical data -- not to provide independent analysis and evaluation.

REPUBLIC OF KOREA

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INTRODUCTION

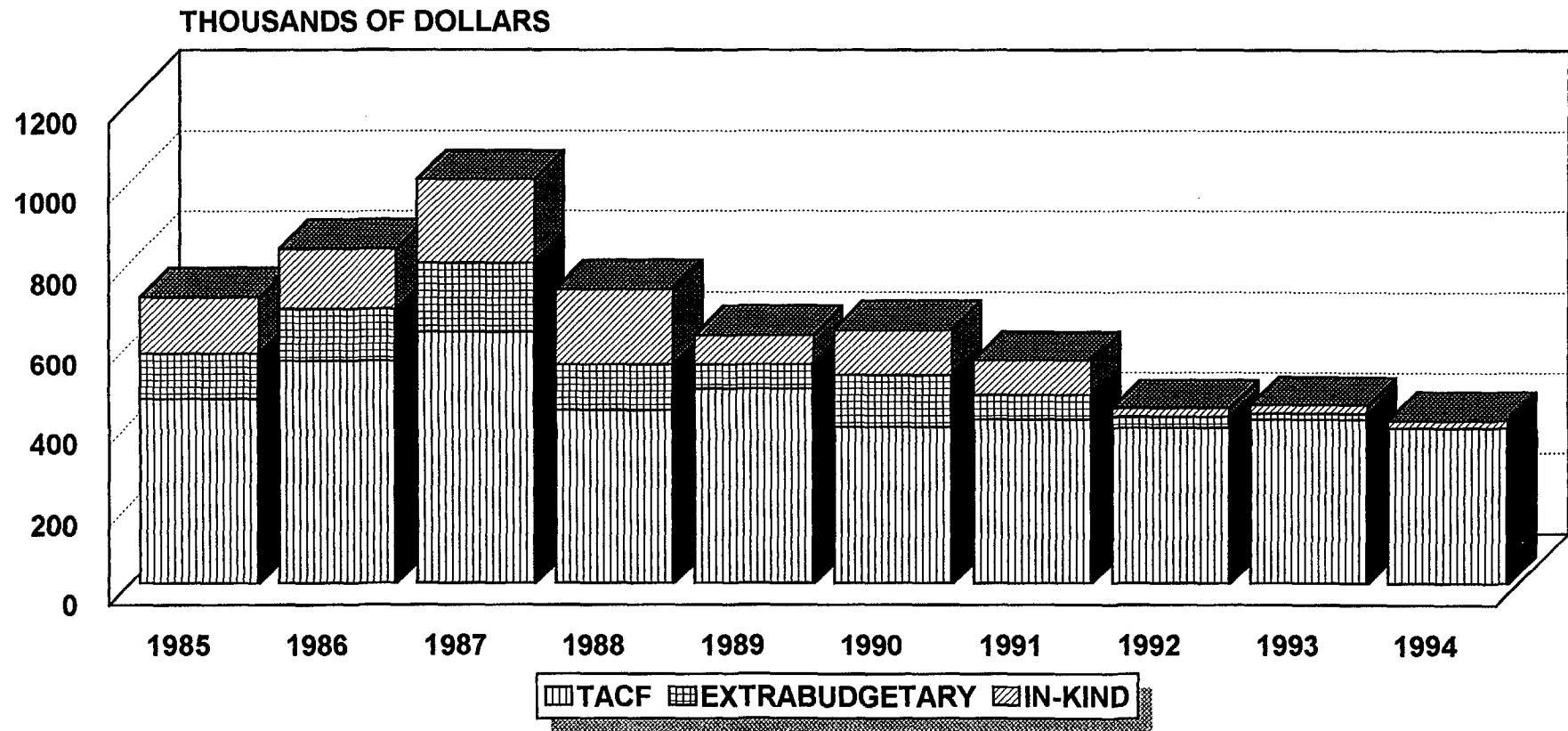
The country programme summary reported on here is one in the series of such studies being undertaken of the Agency's TC programme with Member States. With over \$12.1 million of Agency support received, the Republic of Korea ranks 10th among all recipients of technical assistance during the period 1958 through 1994.

The major part of the assistance received over the past ten years was provided in the form of training (45%) and expert services (42%), with only a small share going to equipment (13%). Almost one-third of the resources was made available through the Technical Assistance Fund (64%), the rest was provided through assistance in kind (15%), extrabudgetary contributions (12%) and UNDP (9%).

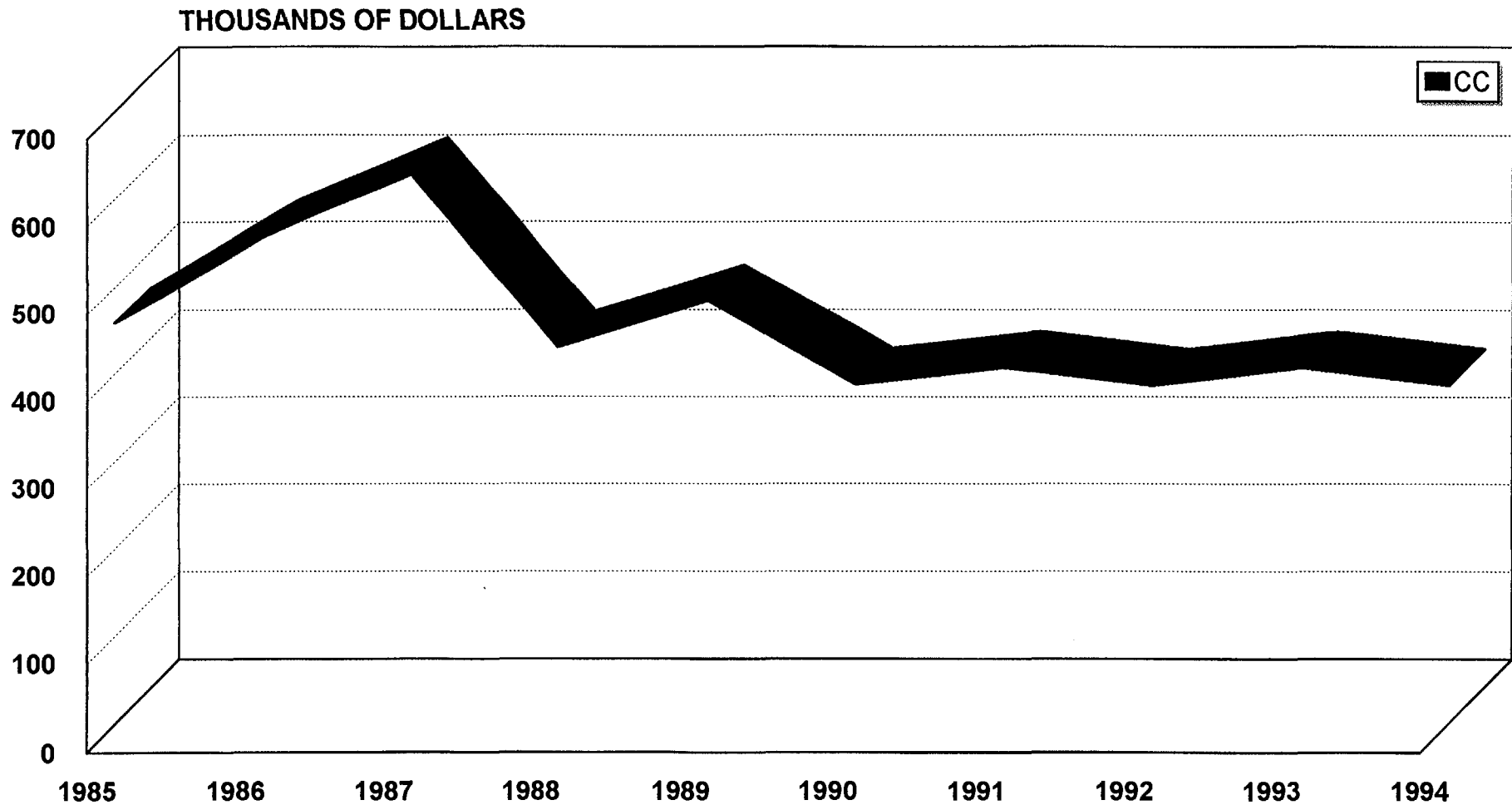
As regards distribution of the assistance by sector, by far the largest share went to nuclear safety (42%), followed by agriculture (22%), nuclear engineering and technology (17%), nuclear physics and chemistry (9%) and general atomic energy development (7%).

Since 1985, scientists from the Republic of Korea have completed 123 assignments as Agency experts and training course lecturers or as participants in research co-ordination meetings. During the same period, the country has hosted 50 fellowships and scientific visits, as well as one interregional and 15 regional group training events for a total of 216 participants.

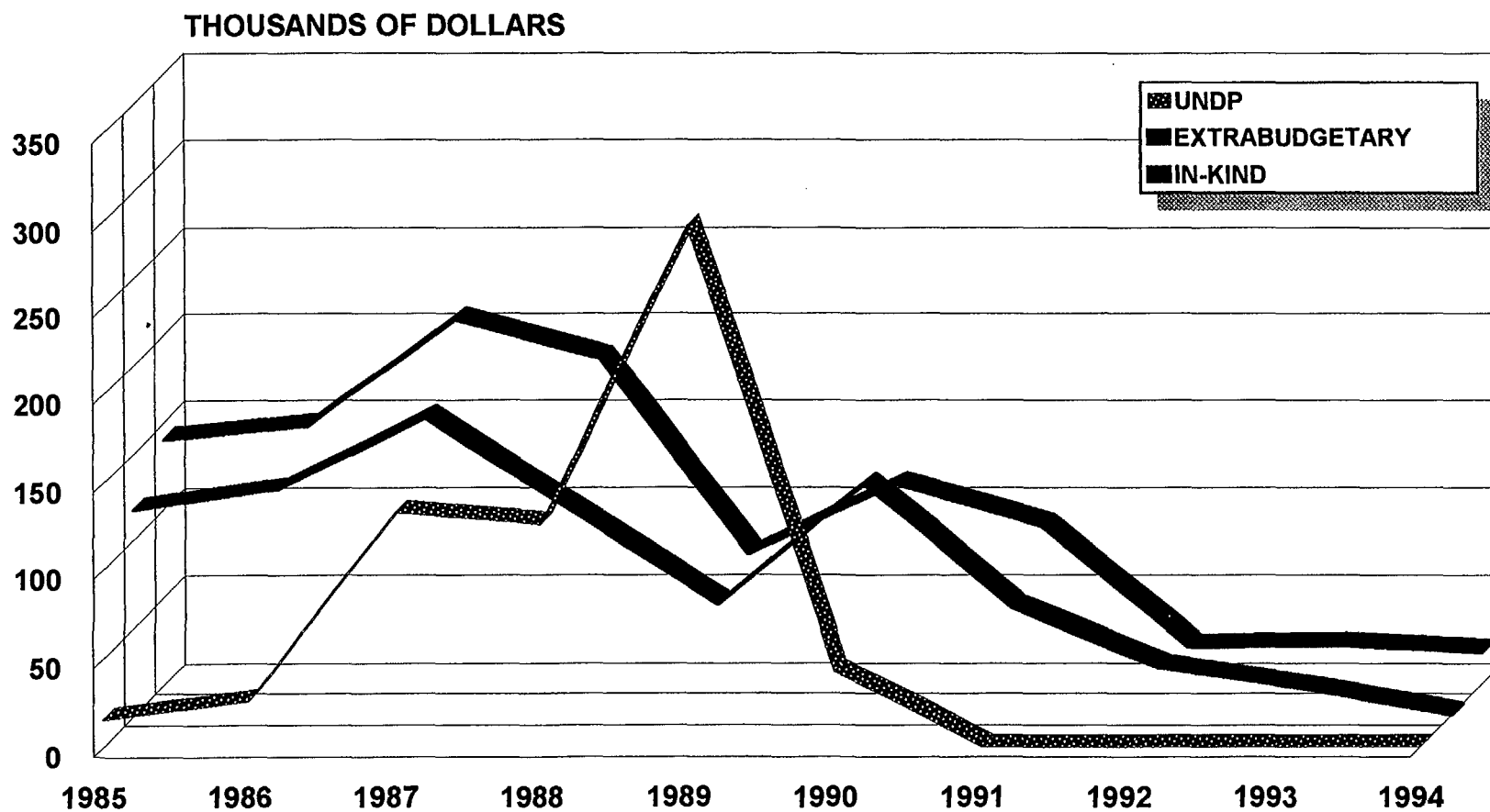
ASSISTANCE PROVIDED BY THE AGENCY TO THE REPUBLIC OF KOREA BY SOURCE (1985 - 1994)



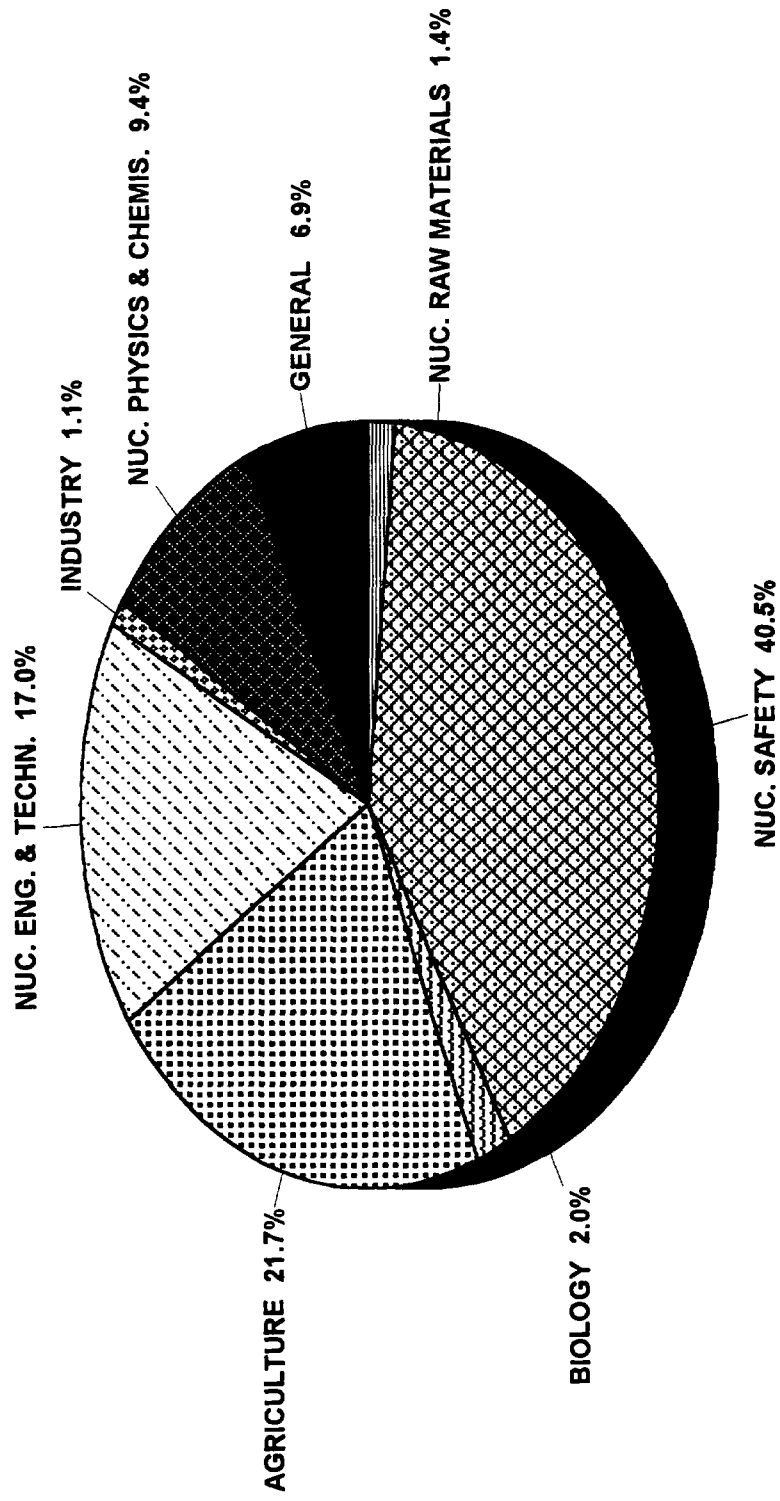
TACF ASSISTANCE PROVIDED TO THE REPUBLIC OF KOREA (1985 - 1994)



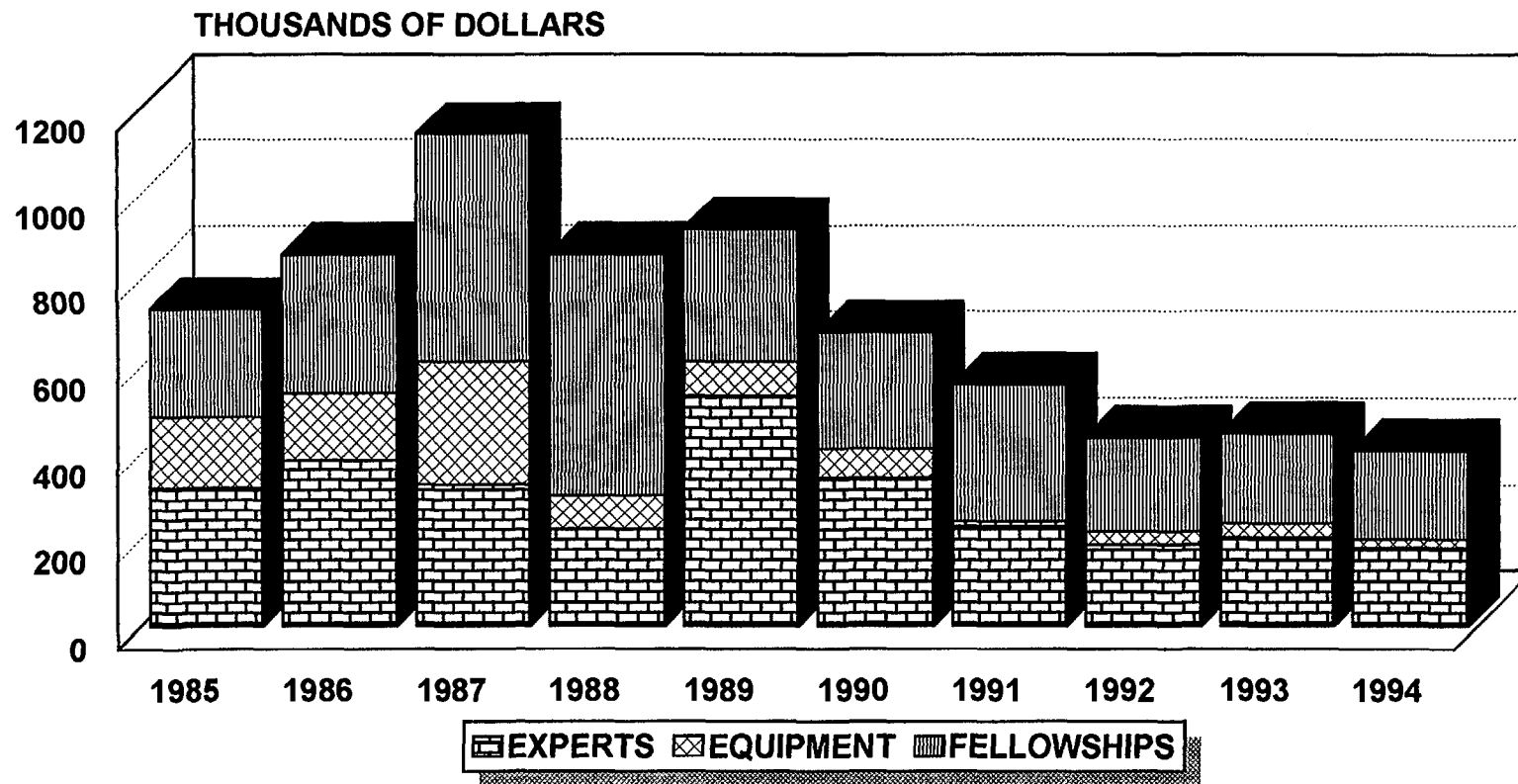
UNDP, EXTRABUDGETARY AND IN-KIND ASSISTANCE PROVIDED TO THE REPUBLIC OF KOREA (1985 - 1994)



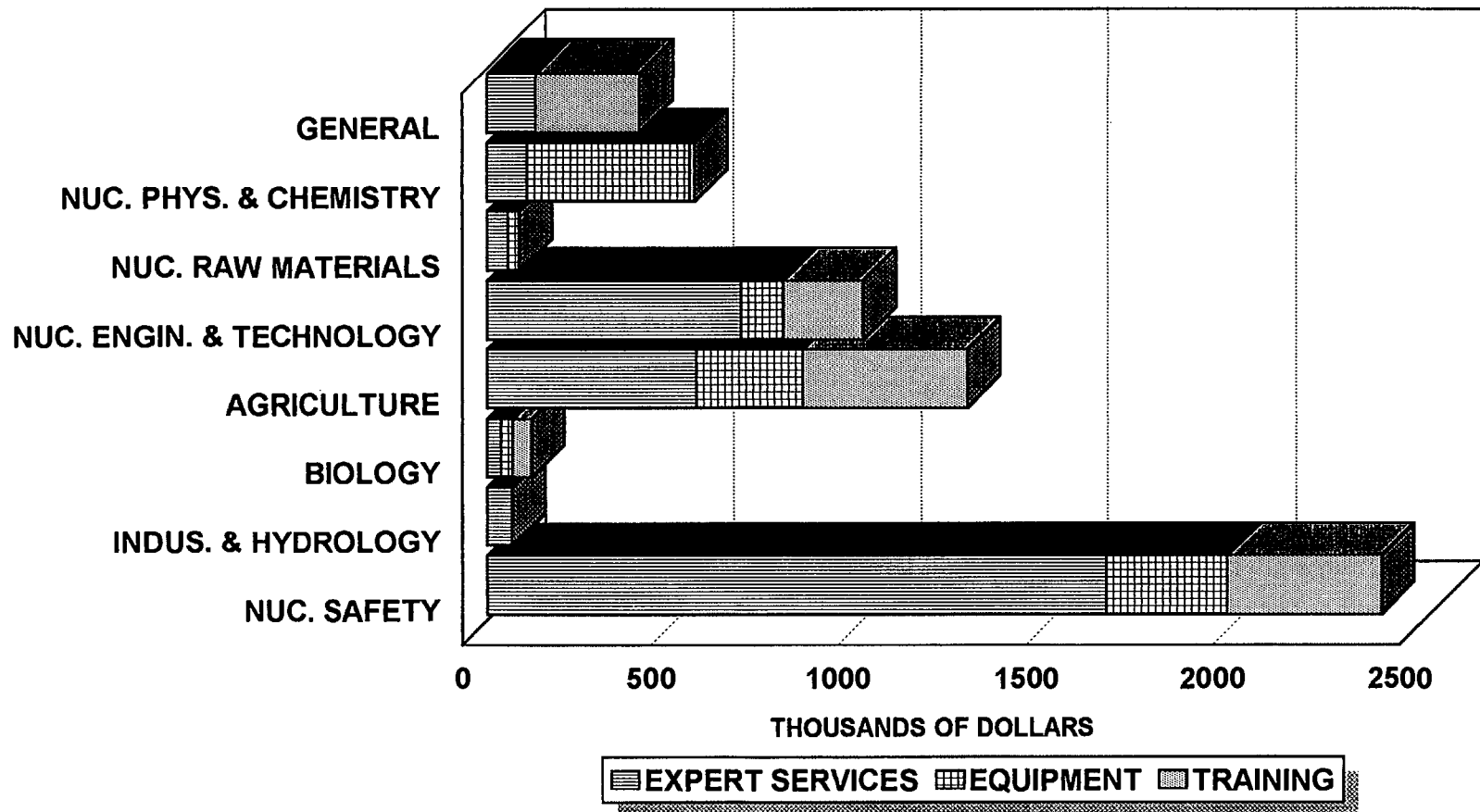
TC PROJECT DISBURSEMENTS IN THE REPUBLIC OF KOREA BY SECTOR (1985 - 1995)



ASSISTANCE PROVIDED BY THE AGENCY TO THE REPUBLIC OF KOREA BY TYPE (1985 - 1994)



EXPERT SERVICES, EQUIPMENT AND PROJECT-FUNDED TRAINING PROVIDED TO THE REPUBLIC OF KOREA BY SECTOR (1985 - 1995)



THE AGENCY'S TECHNICAL CO-OPERATION PROGRAMME WITH THE REPUBLIC OF KOREA

ALL SOURCES

KOREA'S RANKING AS A TC RECIPIENT
1958 - 1994
(in \$1000)

YEAR	RANKING	AMOUNT
1958-84	12 th	5110.9
1985	9 th	729.3
1986	7 th	857.9
1987	6 th	1138.9
1988	8 th	857.9
1989	7 th	917.7
1990	18 th	675.4
1991	25 th	556.3
1992	34 th	433.8
1993	29 th	442.9
1994	36 th	404.5
1958-94	10 th	12125.5

**"TOP FIVE" RECIPIENTS OF AGENCY ASSISTANCE
1958 - 1994 (in \$1000)**

ALL SOURCES

Year	I	II	III	IV	V	REPUBLIC OF KOREA
1958-84	EGY 10650.4	BRA 9513.7	PER 7574.2	IND 7412.8	PHI 6679.0	12 th - 5110.9
1985	EGY 2494.8	PER 1120.7	THA 1117.4	BGD 1068.2	PHI 963.7	9 th - 729.3
1986	EGY 2317.0	BRA 1452.9	THA 1169.4	POL 1050.3	BGD 896.4	7 th - 857.9
1987	HUN 3452.6	EGY 1775.4	THA 1742.4	INS 1312.5	YUG 1223.2	6 th - 1136.9
1988	EGY 1486.9	BUL 1361.6	CPR 1278.5	THA 1158.7	BRA 1096.7	8 th - 857.9
1989	CPR 1542.3	EGY 1505.1	THA 1205.3	BRA 1096.5	INS 999.1	7 th - 917.7
1990	POL 2308.1	CPR 2005.0	VIE 1589.2	INS 1412.6	BRA 1229.1	18 th - 675.4
1991	INS 1305.2	CPR 975.0	EGY 959.8	BRA 951.2	BUL 934.7	25 th - 556.3
1992	EGY 1586.3	INS 1342.1	CPR 1328.8	MEX 1127.8	POL 1036.4	34 th - 433.8
1993	INS 1285.9	CPR 1091.7	PAK 1012.2	EGY 905.3	IRA 810.1	29 th - 442.9
1994	URT 2153.3	IRA 1438.5	CPR 1336.1	ARG 1225.8	GHA 1166.9	36 th - 404.5
1958-94	EGY 25492.2	BRA 19165.8	THA 16827.6	INS 16088.4	PER 14350.7	10 th - 12125.5

**"TOP FIVE" RECIPIENTS OF AGENCY ASSISTANCE
1958 - 1994 (in \$1000)**

TECHNICAL ASSISTANCE AND CO-OPERATION FUND

Year	I	II	III	IV	V	REPUBLIC OF KOREA
1958-84	EGY 4652.4	HUN 3458.4	PAK 3272.4	THA 2825.4	CUB 2761.7	9 th - 2373.6
1985	BGD 991.8	VIE 745.0	THA 708.7	BRA 571.8	POR 538.7	7 th - 497.1
1986	BRA 1381.8	THA 871.9	POL 833.5	BGD 823.9	SYR 751.8	11 th - 556.2
1987	HUN 3305.2	DRK 986.8	BUL 888.5	INS 885.8	EGY 878.9	16 th - 628.1
1988	BUL 1195.6	PER 856.5	EGY 768.6	INS 751.7	MAL 656.0	15 th - 429.5
1989	EGY 990.9	CPR 868.2	POR 769.6	CHI 756.9	MAL 619.4	16 th - 483.6
1990	POL 1562.3	VIE 1518.8	DRK 1156.2	IRA 958.0	YUG 933.4	27 th - 387.1
1991	BUL 893.1	PAK 868.8	INS 855.1	VIE 817.6	CPR 814.5	28 th - 405.9
1992	EGY 1255.7	CPR 1009.0	VIE 872.8	INS 826.6	IRA 795.5	33 rd - 385.5
1993	INS 1040.5	CPR 896.5	PAK 847.6	IRA 807.4	THA 721.5	27 th - 405.6
1994	URT 1392.9	IRA 1260.8	ARG 1206.5	CPR 1022.8	PAK 933.0	35 th - 386.2
1958-94	EGY 12209.1	PAK 9896.2	INS 9666.8	POL 9602.4	VIE 9566.6	15 th - 6898.4

ASSISTANCE PROVIDED BY THE AGENCY TO THE REPUBLIC OF KOREA

Financial Summary 1985 - 1994
(In thousands of dollars)

Year	ASSISTANCE PROVIDED, BY TYPE						ASSISTANCE PROVIDED, BY SOURCE					
	Experts	Equipment	Fellowships	Group training	Sub-contracts	Total	UNDP	TACF CC	TACF NCC	Extra-budgetary	In-kind	Total
1985	317.6	164.3	247.4	-	-	729.3	15.4	457.1	-	116.8	140.0	729.3
1986	381.4	155.4	321.1	-	-	857.9	25.4	556.2	-	128.7	147.6	857.9
1987	325.7	282.8	530.4	-	-	1 138.9	132.8	628.1	-	169.6	208.4	1 138.9
1988	220.8	80.1	557.0	-	-	857.9	125.8	429.5	-	116.6	186.0	857.9
1989	528.9	80.1	308.7	-	-	917.7	298.1	483.6	-	62.4	73.6	917.7
1990	342.1	65.6	267.7	-	-	675.4	42.5	387.1	-	131.7	114.1	675.4
1991	227.5	11.6	317.2	-	-	556.3	-	405.9	-	60.9	89.5	556.3
1992	183.5	30.9	219.4	-	-	433.8	-	385.5	-	27.1	21.2	433.8
1993	200.7	34.1	208.1	-	-	442.9	-	405.6	-	14.7	22.6	442.9
1994	176.9	20.9	206.7	-	-	404.5	-	386.2	-	-	18.3	404.5
1985-94	2 905.1	925.8	3 183.7	-	-	7 014.6	640.0	4 524.8	-	828.5	1 021.3	7 014.6

TECHNICAL CO-OPERATION PROJECTS IN THE REPUBLIC OF KOREA
BY SECTOR

PROJECTS COMPLETED AND OPERATIONAL 1985 - 1995

TOTAL PROJECT ALLOTMENTS AND DISBURSEMENTS
(As of 30 September 1995)

SECTOR	NO. OF PROJECTS	ALLOTMENTS \$	% OF TOTAL	DISBURSEMENTS \$	% OF TOTAL
General atomic energy development	4	840 358	13.4	404 630	6.9
Nuclear physics and chemistry	5	699 542	11.2	550 374	9.4
Nuclear raw materials	2	83 874	1.3	83 874	1.4
Nuclear engineering and technology	13	871 552	13.9	1 002 544	17.0
Nuclear techniques in agriculture	12	1 464 917	23.3	1 276 799	21.7
Nuclear medicine	-	-	-	-	-
Nuclear techniques in biology	2	114 425	1.8	116 749	2.0
Nuclear techniques in industry and hydrology	2	65 991	1.1	65 991	1.1
Nuclear safety	21	2 135 182	34.0	2 384 897	40.5
TOTAL	61	6 275 841	100.0	5 885 858	100.0

TECHNICAL CO-OPERATION PROJECTS IN THE REPUBLIC OF KOREA
 COMPLETED AND OPERATIONAL, BY SECTOR, 1985 - 1995
 (As of 30 September 1995)

Sector	No. of projects	Total project allotments \$	Total project disbursements \$
<u>Completed projects</u>			
General atomic energy development	2	86 541	129 933
Nuclear physics and chemistry	3	490 892	491 404
Nuclear raw materials	2	83 874	83 874
Nuclear engineering and technology	12	760 727	951 987
Nuclear techniques in agriculture	8	983 974	991 144
Nuclear medicine	-	-	-
Nuclear techniques in biology	-	-	-
Nuclear techniques in industry & hydrology	2	65 991	65 991
Nuclear safety	15	1 550 663	1 920 259
TOTAL	44	4 022 662	4 634 592
<u>Operational projects</u>			
General atomic energy development	2	753 817	274 697
Nuclear physics and chemistry	2	208 650	58 970
Nuclear raw materials	-	-	-
Nuclear engineering and technology	1	110 825	50 557
Nuclear techniques in agriculture	4	480 943	285 655
Nuclear medicine	-	-	-
Nuclear techniques in biology	2	114 425	116 749
Nuclear techniques in industry & hydrology	-	-	-
Nuclear safety	6	584 519	464 638
TOTAL	17	2 253 179	1 251 266

**EXPERT SERVICES, EQUIPMENT AND PROJECT-FUNDED TRAINING PROVIDED TO THE REPUBLIC OF KOREA, BY SECTOR
PROJECTS COMPLETED AND OPERATIONAL 1985 - 1995
(As of 30 September 1995)**

FIELD	TOTAL PROJECT ALLOTMENTS				TOTAL PROJECT DISBURSEMENTS			
	EXPERT SERVICES		EQUIPMENT	TRAINING	EXPERT SERVICES		EQUIPMENT	TRAINING
	M/M	\$	\$	\$	M/M	\$	\$	\$
General atomic energy development	13/19	138 205	-	702 153	9/21	129 175	-	275 455
Nuclear physics and chemistry	15/04	152 983	428 659	117 900	9/21	106 125	431 457	12 792
Nuclear raw materials	4/14	55 053	28 821	-	4/14	55 053	28 821	-
Nuclear engineering and technology	61/15	497 812	112 511	261 229	56/25	675 090	112 058	215 396
Nuclear techniques in agriculture	60/12	584 695	325 340	554 882	55/26	554 290	286 379	436 130
Nuclear medicine	-	-	-	-	-	-	-	-
Nuclear techniques in biology	2/21	28 395	30 000	56 030	2/12	37 496	29 154	50 099
Nuclear techniques in industry & hydrology	4/05	65 991	-	-	4/07	65 991	-	-
Nuclear safety	171/00	1 228 483	322 682	584 017	161/26	1 650 776	320 769	413 352
TOTAL	333/00	2 751 617	1 248 013	2 276 211	305/02	3 273 996	1 208 638	1 403 224

AGENCY FELLOWS FROM THE REPUBLIC OF KOREA

1985 - 1995 ^{1/}
(As of 30 September 1995)

Sector	No. of fellowships	No. of months/days	Host countries
General atomic energy development	12	29/29	CAN, USA, FRA, SWE, GER, JPN, IAEA
Nuclear physics	5	61/21	USA, DEN
Nuclear chemistry	1	0/15	GER, UK
Nuclear raw materials	3	13/05	GER, CAN, USA
Nuclear engineering and technology	39	281/29	CAN, ARG, IND, USA, SWE, FRA, BEL, GER, SPA, CEC
Nuclear techniques in agriculture	57	254/03	ISR, USA, AUS, CAN, SWE, DEN, GER, JPN, ITA, AUL, FRA, NET, POL, CPR, IND, UK, IAEA
Nuclear medicine	4	2/29	GER, USA, UK, IAEA
Nuclear techniques in biology	4	10/18	USA, IAEA
Nuclear techniques in industry and hydrology	3	19/20	USA, DEN, NET, JPN, AUL, UK
Nuclear safety	70	393/11	USA, CAN, FRA, SWE, FIN, GER, DEN, ITA, NET, JPN, SPA, ARG, SAF, AUS, UK, IAEA
TOTAL	198	1068/00	

^{1/} Awarded since 1985, but only includes fellows who have completed or at least started training.

REPUBLIC OF KOREA
LONG-TERM FELLOWSHIPS
1985 - 1995
(As of 30 September 1995)

Name	Field of study		Host country	Date	Duration	Project
CHU, SUNG SIL	High-dose dosimetry	1K	GER	Apr.87 - Apr.88	12/00	-
HWANG SUN-TAE	Neutron measurements	1K	USA	Aug.90 - Aug.91	12/00	RAS/0/014
KIM, YEONG IL	Reactor physics	1F	USA	Jan.87 - Feb.88	13/19	-
LEE, CHANG HEE	Neutron scattering	1E	USA	Nov.89 - Nov.90	12/00	RAS/0/014
LEE, KYUNG-JU	Radiometry and dosimetry	1K	USA	Jan.91 - Jan.92	12/00	RAS/0/014
SHIM, HAE SEOP	Neutron physics	1E	DEN	Oct.93 - Oct.94	12/00	ROK/1/012
CHO YOUNG-HYUN	Nuclear chemical engineering	4F	USA	Sep.91 - Dec.92	15/00	ROK/4/023
CHOI, BONG SIK	Nuclear fuel management	4A	USA	Aug.84 - Feb.86	18/00	-
CHOI, KANG-RYONG	Power reactors	4C	USA	Jan.90 - Mar.91	14/00	ROK/9/029
CHUNG, YUN SUK	NPP structural engineering	4D	USA	May 86 - Jul.87	14/00	ROK/9/015
HAN, SANG JOON	Nuclear instrumentation and control	4G	CAN	Jan.88 - Jan.89	12/00	ROK/9/028
KANG, YOUNG CHOL	Instrumentation of NPPs	4G	USA	Sep.84 - Oct.85	13/25	ROK/9/017
KIM CHANG WOO	Nuclear instrumentation	4M	USA	Feb.87 - Feb.88	12/00	ROK/9/013
KIM DAE WHAN	Reactor technology	4D	CAN	Jan.92 - Jan.93	12/08	ROK/9/028

REPUBLIC OF KOREA
LONG-TERM FELLOWSHIPS
1985 - 1995
(As of 30 September 1995)

Name	Field of study		Host country	Date	Duration	Project
KIM, BEOM-SHIG	Reactor technology	4D	CAN	May 86 - May 87	12/00	ROK/4/014
LEE IN-KOO	Quality assurance	4M	USA	Mar.91 - Mar.92	12/00	ROK/4/021
LEE, BONG SANG	Reactor technology	4D	CEC	Jul.91 - Jul92	12/00	ROK/9/028
LEE, SANG KOOK	Reactor technology	4D	USA	Mar.88 - Apr.89	13/00	ROK/9/013
MOON, YOU-HYUN	Nuclear fuel management	4J	USA	Aug.89 - Aug.91	24/15	RAS/0/014
PARK, MOON-HO	Nuclear instrumentation, electronics and reactor control	4G	USA	Jan.93 - May 94	16/00	ROK/4/024
PARK, YOUN WON	Reactor pressure vessels	4D	FRA	Jan.87 - Dec.87	12/00	ROK/9/025
RYU, WOO-SEOG	Irradiation effects	4K	USA	Sep.88 - Oct.89	12/25	ROK/4/014
YANG, SUN-KYU	Reactor thermal hydraulics	4D	GER	Jan.93 - Jan.94	12/00	ROK/0/007
YANG, YEONG-SEOK	Heavy water purification	4F	CAN	Jan.88 - Jan.89	12/00	ROK/4/015
KIM, WON-IL	Agricultur/plant biochemistry	5B	USA	May 89 - Jul.90	13/14	ROK/5/025
KIM, YEONG WOO	Plant physiology	5B	USA	Sep.84 - Nov.85	14/00	ROK/5/020
KOO BON CHEOL	Plant breeding and genetics	5C	POL	Jan.94 - Jan.95	12/00	ROK/5/028

REPUBLIC OF KOREA
LONG-TERM FELLOWSHIPS
1985 - 1995
(As of 30 September 1995)

Name	Field of study	Host country	Date	Duration	Project
LEE, JAE WON	Food irradiation 5H	USA	Sep.86 - Oct.87	13/00	-
LEE, JANG-YONG	Plant genetics 5C	UK	Mar.85 - Nov.86	20/24	ROK/5/020
LEE, MIN-HYO	Plant genetics 5C	USA	Jan.88 - Feb.89	13/23	ROK/5/020
LEE, WON-CHU	Plant physiology 5B	USA	Oct.87 - Oct.88	12/00	ROK/5/024
KIM JANG-HEE	Use of medical cyclotron 6B	USA	Jun.86 - Sep.87	15/00	ROK/8/005
CHANG, HOON SEUN	Electron beam processing 8H	GER	Jan.85 - Jan.86	12/00	-
JUN, BOCK HYUN	NPP pressure component inspection 8C	USA	Dec.86 - Dec.87	13/00	ROK/9/023
CHA, SANG HO	Safety evaluation 9F	FRA	Jan.86 - Jan.87	12/00	ROK/9/015
CHOI, HO-SIN	Safety evaluation 9F	FRA	Jan.86 - Jan.87	12/00	-
CHOI, YONG HO	Environmental protection 9C	CAN	Oct.85 - Oct.86	12/00	RPK/9/026
KIM IN TAE	Radwaste management 9E	CAN	Dec.91 - Dec.92	12/00	ROK/9/021
KIM SANG YOUL	Reactor safety 9D	FRA	Nov.89 - Nov.90	12/00	RAS/0/014
KIM, SUK WON	Safety evaluation 9F	FRA	Jan.86 - Dec.86	12/00	ROK/9/015
LEE, CHUNG YOUNG	Reactor safety 9D	CAN	Apr.91 - Apr.92	12/00	ROK/9/028

REPUBLIC OF KOREA
LONG-TERM FELLOWSHIPS
1985 - 1995
(As of 30 September 1995)

Name	Field of study		Host country	Date	Duration	Project
LEE, MOON-SE	NPP licensing/inspection	9B	FRA	Jan.87 - Dec.87	12/00	-
OH, HYEON-JOO	Radiation protection	9C	NET	Jan.92 - Apr.93	15/00	ROK/9/035
OH, KI HOON	Radiological protection	9C	USA	Oct.86 - Nov.87	13/00	ROK/9/026
PARK DONG-KEUK	Siting of NPPs	9D	USA	Oct.86 - Oct.87	12/00	ROK/9/023
PARK, JAI HONG	NPP accident analysis	9F	USA	Aug.85 - Aug.86	12/00	ROK/9/023
SONG, KI-SANG	Nuclear safety analysis	9F	USA	Jul.84 - Jan.86	18/00	-
SUH, JOONG SEOK	Safety of nuclear materials	9D	USA	Jan.86 - Jul.87	18/00	-
SUNG, KI-WOUNG	Radwaste treatment	9E	USA	Jan.88 - May 89	15/00	ROK/9/021
WOO, SANG-CHURL	Reactor safety	9D	FRA	Oct.87 - Dec.88	14/23	ROK/9/025
YOON YEO-CHANG	Radiation protection	9C	CAN	Apr.91 - Apr.92	12/00	RAS/0/018
YOON, WON HYO	Probabilistic risk assessment	9F	USA	Sep.86 - Sep.87	12/00	ROK/9/023
YUM, DUCK SUN	Safety of reactors	9D	FRA	Oct.87 - Dec.88	15/00	RO/9/028

KOREAN NATIONALS WHO WERE AWARDED MORE THAN ONE
FELLOWSHIP OR SCIENTIFIC VISIT
1985 - 1995
(As of 30 September 1995)

Name	Field of study		Host country	Date	Duration	Project
CHUNG JUNE-KEY	1. Nuclear medicine 2. Nuclear medicine	6B 6B	UK/IAEA USA	Sep.90 - Oct.90 Sep.94 - Oct.94	1/00 0/14	RAS/0/014 ROK/0/007
HONG YOUNG-PYO	1. Plant nutrition 2. Soil science, irrigation and plant nutrition	5B 5B	GER/IAEA/JPN USA	Jun.91 Jun.94 - Sep.94	0/10 3/00	ROK/5/028 ROK/0/007
HWANG SUN-TAE	1. Neutron measurements 2. Radiation protection 3. Environmental protection	1K 9C 9G	USA USA USA	Aug.90 - Aug.91 Apr.93 Sep.95	12/00 0/10 0/19	RAS/0/014 ROK/9/034 ROK/9/038
KANG CHUL-WHAN	1. Plant breeding 2. Plant breeding and genetics	5C 5C	ISR CPR/IND	Jun.87 - Jul.87 Aug.95	1/23 0/21	- ROK/0/007
KIM, YONG EAK	1. Heavy water management 2. Nuclear chemical engineering	4D 4F	CAN/ARG/IND SWE/FRA	Feb.85 Apr.94 - May 94	0/19 0/21	- ROK/0/007
KOO, BON-HYUN	1. NPP safety 2. Safety evaluation	9D 9F	USA GER	Jan.88 - Oct.88 Feb.87 - Mar.87	8/27 0/19	ROK/9/023 INT/9/065
LEE HAI-YONG	1. Environmental protection 2. Radiation protection	9G 9C	JPN SWE/UK	Oct.92 Jul.95 - Aug.95	1/00 0/28	ROK/9/035 ROK/9/039
LEE JONG CHAN	1. Safety evaluation 2. Safety standards	9F 9B	CAN ARG	Jun.87 Jul.89 - Aug.89	0/19 0/19	- ROK/9/027

KOREAN NATIONALS WHO WERE AWARDED MORE THAN ONE
FELLOWSHIP OR SCIENTIFIC VISIT
1985 - 1995
(As of 30 September 1995)

Name	Field of study	Host country	Date	Duration	Project	
LEE, JAI-KI	1. Safety evaluation	9F	SWE	Sep.86	0/19	-
	2. Environmental protection	9G	UK/SWE	Sep.91 - Oct.91	0/12	ROK/9/034
OH BYUNG-YOUL	1. Pesticide residues	5G	IAEA	Mar.89 - Jul.89	3/19	ROK/5/025
	2. Agricultural biochemistry	5G	USA	May 95	0/14	ROK/0/007
PARK, YOUN WON	1. Reactor pressure vessels	4D	FRA	Jan.87 - Dec.87	12/00	ROK/9/025
	2. Safety standards, regulations and procedures	9B	SWE/FRA	Aug.95 - Sep.95	0/14	ROK/9/037

AGENCY TRAINING COURSES WITH KOREAN PARTICIPATION

1985 - 1995
(As of 30 September 1995)

Field	Number of participants	Number of courses
General atomic energy development	28	22
Nuclear physics	6	6
Nuclear chemistry	7	6
Nuclear raw materials	3	2
Nuclear engineering and technology	45	34
Nuclear techniques in agriculture	21	19
Nuclear medicine	17	16
Nuclear techniques in biology	11	7
Nuclear techniques in industry & hydrology	80	65
Nuclear safety	97	62
TOTAL	315	239

**MULTIPLE PARTICIPATION IN AGENCY TRAINING COURSES
BY KOREAN NATIONALS
1985 - 1995
(As of 30 September 1995)**

Name	Course No.	Course title	Year	Location
BO YOUN CHO	RAS/6/011 (001)	RTC on the use and preparation of bulk reagents for radioimmunoassay of thyroid related hormones	1986	THA
	RAS/6/011 (002)	RTC on external quality assessment schemes for RIA of thyroid hormones	1989	THA
CHO HANG YOUN	INT/9/072 (001)	ITC on planning, preparedness and response to nuclear accidents or radiological emergencies	1987	USA
	INT/9/084 (001)	ITC pm probabilistic safety assessment in NPP operation	1988	USA
CHO SEUNG-YEON	RAS/7/005 (001)	RTC on sampling, sample preparation and data evaluation in multi-element and radionuclide analysis by nuclear and instrumental methods	1991	IND
	RAS/8/071 (010)	RWS on nuclear analytical techniques in environmental research and monitoring	1995	SIN
CHOI, KWANG-HAK	INT/9/072 (001)	ITC on planning, preparedness and response to nuclear accidents or radiological emergencies	1987	USA
	RAS/0/011 (001)	Regional overview course on regulatory aspects of radiation and nuclear safety	1986	MAL
HA, CHUNG WOO	INT/1/014 (001)	Interregional seminar and workshop on calibration procedures in secondary standards dosimetry laboratories	1987	TUR
	RAS/9/006 (004)	RWS on intercomparison for personal dosimeters	1990	JPN
HWANG, INKOO	INT/4/091 (001)	ITC on NPP control and instrumentation	1987	GER
	INT/4/112 (001)	ITC on nuclear electronics	1992	MEX
HYUN, YOUNG HAAK	INT/9/086 (001)	ITC on safety in NPP operation	1988	USA/CAN
	RAS/0/015 (003)	RTC on research reactor safety principles	1990	IND
JIN, JOON HA	RAS/8/061 (019)	Third regional training demonstration on the use of tracer technology in industry	1988	CPR
	RAS/8/070 (004)	Regional seminar on electron beam technology for purification of flue gases	1994	JPN
	RAS/8/071 (004)	RWS on use of tracer technology in surface water effluent studies	1994	MAL

**MULTIPLE PARTICIPATION IN AGENCY TRAINING COURSES
BY KOREAN NATIONALS
1985 - 1995
(As of 30 September 1995)**

Name	Course No.	Course title	Year	Location
JUN, BYUNG JIN	INT/4/074 (001)	IWS on the conversion of research reactors to low enrichment uranium fuels	1985	VEN
	INT/4/092 (001)	ITC on the application of small computers to research reactor operations	1987	YUG
KIM BONG-HWAN	RAS/0/015 (001)	RWS on environmental sampling and measurements of radioactivity for monitoring purposes	1989	IND
	RAS/1/009 (001)	Advanced RTC on gamma-ray spectroscopy	1988	THA
	RAS/9/006 (012)	Regional (RCA) workshop on calibration of dosimeters and survey instruments for photons	1994	JPN
KIM HUHN JUN	RAS/0/015 (005)	RWS on technology and utilization of low power research reactors	1990	CPR
	RAS/0/015 (009)	RWS on neutron transmutation doping technology	1992	CPR
	RAS/8/062 (010)	RWS on neutron radiography	1989	JPN
KIM YUN-IK	INT/9/126 (001)	ITC on safety aspects of ageing and maintenance in NPP operation	1992	USA
	INT/9/132 (001)	ITC on operational safety assessment techniques	1993	SPA
KIM, CHEOL-SU	RAS/2/004 (001)	RTC on determination of radionuclides in food and environmental samples	1992	JPN
	RAS/2/006 (001)	RTC on advanced nuclear analytical techniques in environmental impact from industry	1995	JPN
KIM, JANG-LYUL	RAS/6/015 (001)	RTC on radiation dosimetry	1989	CPR
	RAS/9/006 (001)	RTC on development of infrastructure for ensuring radiation protection	1988	AUL
KIM, JONG-LAI	INT/9/089 (001)	ITC on the physical protection of nuclear facilities and materials	1988	USA
	RAS/0/015 (008)	RTC on safety aspects in industrial applications of radiation sources	1991	IND
KIM, KI-YUP	RAS/8/008 (043)	Regional third UNDP/IAEA/RCA training demonstration on industrial sterilization of medical products	1986	IND
	RAS/8/061 (075)	RTC on radiation curing of surface coatings on wood products	1990	INS
	RAS/8/062 (015)	RWS on radiation engineering - electron beam facilities	1989	JPN
	RAS/8/062 (027)	RTC on radiation chemistry	1991	JPN

**MULTIPLE PARTICIPATION IN AGENCY TRAINING COURSES
BY KOREAN NATIONALS
1985 - 1995
(As of 30 September 1995)**

Name	Course No.	Course title	Year	Location
LEE EUI JIN	INT/0/056 (001)	ITC on strengthening project management	1993	IND
	INT/9/085 (001)	ITC on the qualification of NPP operation personnel	1988	GER
	INT/9/113 (001)	ITC on safety in NPP operation: Prevention and management of accidents	1991	USA
LEE, CHOONG SUNG	RAS/4/009 (001)	RTC on research reactor operators	1989	THA
	RAS/4/011 (003)	RTC on computer application on research reactor control and calculation	1991	INS
LEE, JEONG SOO	RAS/0/015 (015)	RWS on applied aspects of neutron scattering	1993	IND
	RAS/4/011 (008)	Regional (RCA) training course on research reactor utilization	1994	AUL
LEE, MYUN-JOO	RAS/8/071 (003)	RTC on applications of isotope techniques in process optimization	1994	IND
	RAS/8/071 (004)	RWS on use of tracer technology in surface water effluent studies	1994	MAL
LEE, SOO YONG	RAS/7/003 (004)	RTC on radiation sterilization of tissue grafts with emphasis on clinical and sterility quality assurance criteria	1992	CPR
	RAS/8/003 (007)	Regional (RCA) training course on open learning techniques applied to radiation sterilization of tissue grafts	1994	CPR
	RAS/8/008 (058)	RTC on radiation sterilization of human tissues	1986	SRL
LEE, YOUNG KEUN	RAS/0/015 (023)	UNDP/RCA/IAEA regional seminar on radiation technology for biomedical applications	1994	CPR
	RAS/7/004 (001)	RTC on application of radiation and radioisotope techniques in biological sciences significant for human health problems	1990	JPN
	RAS/8/061 (011)	RTC on industrial radiation sterilization - quality control and sterility assurance	1987	THA
	RAS/8/062 (033)	RWS on radiation sterilization of pharmaceuticals and drugs	1991	IND
LIM, HYUNG TAIK	RAS/8/061 (023)	RTC on non-destructive testing of ultrasonics (level II)	1988	PAK
	RAS/8/061 (059)	RWS on the fabrication of NDT test pieces	1989	INS
PARK YONG JOON	INT/2/009 (001)	ITC on nuclear techniques in environmental research and monitoring	1994	SLR/AUS/CRO
	RAS/8/071 (010)	RWS on nuclear analytical techniques in environmental research and monitoring	1995	SIN

**MULTIPLE PARTICIPATION IN AGENCY TRAINING COURSES
BY KOREAN NATIONALS
1985 - 1995
(As of 30 September 1995)**

Name	Course No.	Course title	Year	Location
PARK, CHI-SEUNG	RAS/8/061 (021)	RTC on non-destructive testing of radiography (level II)	1988	IND
	RAS/8/061 (076)	RTC on non-destructive testing of radiography (level III)	1990	PHI
	RAS/8/071 (007)	UNDP/RCA/IAEA regional seminar on the evaluation of NDT test pieces	1995	MAL
PARK, SANG JUN	RAS/4/011 (007)	RTC on calculation and measurement of neutron flux spectrum for research reactors	1993	INS
	RAS/4/013 (001)	RTC on the use of personal computers in research reactor operation	1991	INS
	RAS/8/062 (002)	Regional (RCA) workshop on the operation and maintenance of research reactors	1987	IND
SHIM, HAE SEOP	RAS/4/011 (006)	RTC on materials characterization using low and medium neutron flux reactors	1992	CPR
	RAS/4/011 (009)	Regional (RCA) workshop on small angle neutron scattering	1995	IND
WOO, SWENG-WOONG	INT/4/082 (001)	ITC on commissioning of NPPs	1986	UK
	INT/9/132 (001)	ITC on operational safety assessment techniques	1993	SPA
YIM CHANG-JOON	RAS/7/003 (001)	RTC on radiation sterilization of tissue grafts for safe clinical use in health care	1988	CPR
	RAS/7/003 (002)	RWS on radiation and nuclear techniques for sterilization and clinical quality control of tissue grafts in tissue banking	1989	THA
	RAS/7/003 (007)	Regional (RCA) training course on open learning techniques applied to radiation sterilization of tissue grafts	1994	CPR
YOON GYUNG MOK	RAS/8/061 (020)	RTC on radiation engineering - gamma radiation facilities	1988	IND
	RAS/8/061 (027)	RTC on industrial radiation sterilization selection and compatibility of materials	1988	IND
	RAS/8/070 (003)	RTC on fundamental aspects of radiation technology and environmental applications	1994	JPN
	RAS/8/070 (005)	UNDP/RCA/IAEA RWS on radiational processing in industry - process control and dosimetry	1994	JPN
YOON, SE-JUN	INT/9/089 (001)	ITC on the physical protection of nuclear facilities and materials	1988	USA
	RAS/0/015 (007)	RTC on environmental monitoring related to the assessment of the safety of nuclear facilities	1991	CPR

PROJECTS COMPLETED IN KOREA SINCE 1985
(As of 30 September 1995)

STARTED	PROJECT NO.	TITLE	ALLOTMENTS				DISBURSEMENTS				COMPLETED
			EXPERTS		EQUIPMENT	TRAINING	EXPERTS		EQUIPMENT	TRAINING	
			M/M	\$	\$	\$	M/M	\$	\$	\$	
1988	ROK/0/005	Public acceptance of nuclear energy	3/00	24 000	-	6 906	2/22	40 872	-	6 906	1991
1989	ROK/0/006	Energy and nuclear power planning	2/19	21 805	-	33 830	2/19	48 325	-	33 830	1994
1981	PAK/1/006	Secondary standards dosimetry laboratory (SSDL)	2/25	18 175	229 700	-	2/25	16 469	233 618	-	1988
1983	PAK/1/007	Standardization of neutron measurements	4/09	44 058	181 459	-	4/06	43 478	180 950	-	1993
1985	PAK/1/009	Trace element analysis	-	-	17 500	-	-	-	16 889	-	1986
1983	ROK/3/004	Uranium ore analysis	1/00	8 000	23 391	-	1/00	8 000	23 391	-	1987
1987	ROK/3/006	Uranium exploration	3/14	47 053	5 430	-	3/14	47 053	5 430	-	1991
1983	ROK/4/012	Nuclear manpower development	10/06	68 280	-	34 916	10/19	116 947	-	34 915	1988
1984	ROK/4/013	NPP quality assurance and start-up testing	16/22	111 260	23 987	-	16/22	145 841	23 949	-	1989

PROJECTS COMPLETED IN KOREA SINCE 1985
(As of 30 September 1995)

STARTED	PROJECT NO.	TITLE	ALLOTMENTS				DISBURSEMENTS				COMPLETED
			EXPERTS		EQUIPMENT	TRAINING	EXPERTS		EQUIPMENT	TRAINING	
			M/M	\$	\$	\$	M/M	\$	\$	\$	
1984	ROK/4/014	Nuclear fuel cycle technology	5/26	55 400	87 684	37 350	4/20	67 227	87 684	36 775	1992
1987	ROK/4/016	Training course on stress analysis	2/20	18 880	-	-	2/20	26 705	-	-	1989
1987	ROK/4/017	Review of nuclear manpower programme	2/08	16 020	-	-	2/08	32 127	-	-	1988
1988	ROK/4/018	Training in load-following technology for power reactors	2/00	14 400	-	-	1/14	21 629	-	-	1989
1988	ROK/4/019	NPP operator training	5/23	64 742	-	-	5/17	83 963	-	-	1994
1989	ROK/4/020	Support for nuclear power project implementation	2/13	20 575	-	-	2/13	43 985	-	-	1993
1989	ROK/4/021	Quality assurance	3/10	28 150	840	32 861	3/09	48 370	425	33 644	1992
1989	ROK/4/022	Nuclear fuel qualification	2/00	16 500	-	11 214	1/25	8 560	-	11 214	1992
1989	ROK/4/023	NPP water chemistry	1/00	8 100	-	32 888	1/02	13 549	-	29 887	1992

PROJECTS COMPLETED IN KOREA SINCE 1985
(As of 30 September 1995)

STARTED	PROJECT NO.	TITLE	ALLOTMENTS				DISBURSEMENTS				COMPLETED
			EXPERTS		EQUIPMENT	TRAINING	EXPERTS		EQUIPMENT	TRAINING	
			M/M	\$	\$	\$	M/M	\$	\$	\$	
1991	ROK/4/024	Ultrasonic signal analysis and image processing system	2/07	20 380	-	56 300	2/07	38 184	-	46 407	1994
1981	ROK/5/019	Soil/water relationship studies	4/21	39 830	46 897	-	4/21	39 830	46 792	-	1989
1983	ROK/5/020	Mutation breeding	3/00	18 600	-	-	3/03	24 658	-	-	1986
1983	ROK/5/021	Pesticide residues	3/00	20 180	28 347	-	2/12	20 180	28 347	-	1988
1984	ROK/5/022	Isotopes in animal production	2/25	24 774	49 157	-	2/25	24 774	49 157	-	1987
1985	ROK/5/023	Radioisotopes in fertilizer studies	1/00	6 900	14 000	-	1/03	12 833	12 913	-	1987
1985	ROK/5/024	Isotope-aided studies on mulberry physiology	2/29	20 470	-	22 124	2/29	16 386	-	22 579	1988
1985	ROK/5/025	Isotopes and radiation in agricultural research	25/24	283 971	50 414	299 005	25/24	283 971	50 414	299 005	1989
1987	ROK/5/026	Radioimmunoassay in cattle productivity studies	1/06	13 810	45 495	-	1/06	13 810	45 495	-	1991

PROJECTS COMPLETED IN KOREA SINCE 1985
(As of 30 September 1995)

STARTED	PROJECT NO.	TITLE	ALLOTMENTS				DISBURSEMENTS				COMPLETED
			EXPERTS		EQUIPMENT	TRAINING	EXPERTS		EQUIPMENT	TRAINING	
			M/M	\$	\$	\$	M/M	\$	\$	\$	
1982	ROK/8/005	Industrial applications	3/20	52 991	-	-	3/22	52 991	-	-	1991
1986	ROK/8/006	Groundwater resources development	0/15	13 000	-	-	0/15	13 000	-	-	1986
1979	ROK/9/013	NPP safety	15/00	57 000	30 000	-	15/00	89 549	29 210	-	1985
1979	ROK/9/014	Quality assurance	12/00	49 200	-	-	12/23	86 344	-	-	1985
1981	ROK/9/018	Radiation safety of NPPs	3/14	19 137	-	-	3/14	19 137	-	-	1989
1982	ROK/9/021	Radioactive waste disposal	26/15	183 480	90 666	149 765	26/04	273 192	90 666	118 967	1992
1982	ROK/9/022	Nuclear waste management (AEB)	5/13	47 441	-	-	5/13	47 441	-	-	1985
1983	ROK/9/023	Nuclear safety research and training	6/00	37 200	49 500	-	5/13	54 405	49 015	-	1986
1984	ROK/9/025	NPP safety	25/14	194 150	3 920	44 400	25/16	266 851	3 969	42 737	1994
1984	ROK/9/026	Environmental radiation protection	7/28	46 890	117 596	-	7/28	65 534	117 596	-	1989

PROJECTS COMPLETED IN KOREA SINCE 1985
(As of 30 September 1995)

STARTED	PROJECT NO.	TITLE	ALLOTMENTS				DISBURSEMENTS				COMPLETED
			EXPERTS		EQUIPMENT	TRAINING	EXPERTS		EQUIPMENT	TRAINING	
			M/M	\$	\$	\$	M/M	\$	\$	\$	
1985	ROK/9/027	Commissioning and start-up testing of NPPs	11/05	80 550	-	6 027	11/05	123 950	-	6 027	1991
1986	ROK/9/028	Nuclear safety research	9/17	67 870	31 000	76 931	9/17	122 047	30 313	69 484	1993
1987	ROK/9/029	Nuclear regulatory system	3/20	25 950	-	31 350	3/20	40 626	-	29 740	1991
1989	ROK/9/030	Regulatory policy	0/25	6 750	-	-	0/25	9 210	-	-	1994
1989	ROK/9/031	Probabilistic safety assessment techniques	4/27	42 015	-	-	4/16	66 501	-	-	1992
1989	ROK/9/032	Emergency planning and preparedness	2/00	17 135	-	9 100	2/00	20 658	-	9 046	1993
1989	ROK/9/033	OSART mission to Wolsung NPP	7/21	35 640	-	-	7/21	38 044	-	-	1990
	TOTAL	44 Projects	264/01	2 010 712	1 126 983	884 967	261/07	2 677 206	1 126 223	831 163	

OPERATIONAL PROJECTS IN THE REPUBLIC OF KOREA
(As of 30 September 1995)

STARTED	PROJECT NO.	TITLE	ALLOTMENTS				DISBURSEMENTS			
			EXPERTS		EQUIPMENT	TRAINING	EXPERTS		EQUIPMENT	TRAINING
			M/M	\$	\$	\$	M/M	\$	\$	\$
1991	ROK/0/007	Manpower development in nuclear science and technology	1/00	10 800	-	414 397	0/08	-	-	220 457
1995	ROK/0/008	Manpower development and nuclear technology support	7/00	81 600	-	247 020	4/02	39 978	-	14 262
1993	ROK/1/012	Study of condensed matter physics by neutron beam experiment	3/00	31 950	-	36 900	2/20	37 153	-	12 792
1995	ROK/1/013	Materials characterization with research reactor	5/00	58 800	-	81 000	-	9 025	-	-
1993	ROK/4/025	Cyclotron utilization for medical purposes	5/00	55 125	-	55 700	1/29	28 003	-	22 554
1988	ROK/5/027	Processing of agricultural wastes for animal feed	5/17	51 060	29 950	-	4/08	30 565	29 902	-
1991	ROK/5/028	Isotopes and radiation in agricultural research	4/25	43 600	-	66 353	4/25	52 610	-	61 138
1993	ROK/5/029	Activity and environmental fate of pesticides	2/15	26 100	25 000	76 800	1/28	25 698	23 359	51 118
1995	ROK/5/030	Impact of agrochemicals in greenhouse farming	3/00	35 400	36 080	90 600	0/22	8 975	-	2 290

**OPERATIONAL PROJECTS IN THE REPUBLIC OF KOREA
(As of 30 September 1995)**

STARTED	PROJECT NO.	TITLE	ALLOTMENTS				DISBURSEMENTS			
			EXPERTS		EQUIPMENT	TRAINING	EXPERTS		EQUIPMENT	TRAINING
			M/M	\$	\$	\$	M/M	\$	\$	\$
1993	ROK/7/002	Marine environmental radioactivity	2/00	21 150	-	33 398	1/21	25 609	-	27 467
1993	ROK/7/003	Sterilization of tissue grafts	0/21	7 245	30 000	22 632	0/21	11 887	29 154	22 632
1991	ROK/9/034	Monitoring of environmental radiation	4/12	41 340	-	11 614	3/12	37 823	-	11 614
1991	ROK/9/035	Establishment of a biological dosimetry laboratory	3/23	38 655	-	42 700	3/23	62 100	-	42 666
1993	ROK/9/036	Nuclear power and safety technology	9/06	97 080	-	27 900	9/06	144 251	-	24 856
1995	ROK/9/037	Strengthening national safety standards	7/00	82 200	-	73 800	3/10	65 337	-	9 442
1995	ROK/9/038	Monitoring environmental radiation (phase II)	2/00	23 400	-	46 380	1/00	17 776	-	46 380
1995	ROK/9/039	Dosimetry in medicine and radiological health	3/00	35 400	-	64 050	-	-	-	2 393
	TOTAL	17 Projects	68/29	740 905	121 030	1 391 244	43/25	596 790	82 415	572 061

COUNTERPART INSTITUTIONS IN THE REPUBLIC OF KOREA (I)
(By Project)

Project No. Institute Counterpart(s)

GENERAL ATOMIC ENERGY DEVELOPMENT

ROK/0/005	Korea Atomic Energy Research Institute, Nuclear Policy Research Department, Taejeon, Chung-Nam	CHUNG JOON KEUK
ROK/0/006	Korea Advanced Institute of Science and Technology, Department of Nuclear Engineering, Seoul	LEE BYOUNG WHI
ROK/0/007	Ministry of Science and Technology, Division of Nuclear Co-operation, Seoul	LEE MAN KI
ROK/0/008	Ministry of Science and Technology, Atomic Energy Bureau, Gwa-Cheon, Kyunggi-Do	LEE MAN KI

NUCLEAR PHYSICS AND CHEMISTRY

ROK/1/006	Ministry of Health and Social Affairs, National Institute of Health, Department of Radiation Standards, Seoul	WON BONG-PIL
ROK/1/007	Korea Research Institute of Standards and Science, Radiation Laboratory, Taejeon, Chung-Nam	HWANG SUN-TAE
ROK/1/009	Seoul National University, Department of Physics, Seoul	HYOUNG CHAN BANG
ROK/1/012	Korea Atomic Energy Research Institute, Neutron Physics Department, Cheongryang, Seoul	KIM HUHN JUN
ROK/1/013	Korea Atomic Energy Research Institute, Reactor Operation Division, Taejeon, Chung-Nam	KIM HUHN JUN

COUNTERPART INSTITUTIONS IN THE REPUBLIC OF KOREA (I)
(By Project)

<u>Project No.</u>	<u>Institute</u>	<u>Counterpart(s)</u>
<u>NUCLEAR RAW MATERIALS</u>		
ROK/3/004	Korea Institute of Energy and Resources, Seoul	KIM YONG HWAN
ROK/3/006	Korea Institute of Energy Resources, Taejeon, Chung-Nam	PARK JOONG KWON
<u>NUCLEAR ENGINEERING AND TECHNOLOGY</u>		
ROK/4/012	1. Korea Atomic Energy Research Institute, Nuclear Training Centre, Taejeon, Chung-Nam	CHOI CHANG TONG
	2. Korea Electric Power Corporation, Nuclear Power Planning Department, Seoul	CHOI CHANG TONG
ROK/4/013	Korea Institute of Nuclear Safety, Taejeon, Chung-Nam	KIM DONG HOON LEE CHANG KUN
ROK/4/014	Korea Atomic Energy Research Institute, Taejeon, Chung-Nam	SUK HO CHUN
ROK/4/016	Korea Atomic Energy Research Institute, Nuclear Training Centre, Taejeon, Chung-Nam	LEE CHANG KUN
ROK/4/017	Korea Atomic Energy Research Institute, Nuclear Training Centre, Taejeon, Chung-Nam	LEE CHANG KUN
ROK/4/018	Korea Atomic Energy Research Institute, Nuclear Training Centre, Taejeon, Chung-Nam	LEE CHANG KUN
ROK/4/019	Korea Atomic Energy Research Institute, Nuclear Training Centre, Taejeon, Chung-Nam	LEE CHANG KUN
ROK/4/020	Korea Atomic Energy Research Institute, Nuclear Training Centre, Taejeon, Chung-Nam	LEE CHANG KUN

COUNTERPART INSTITUTIONS IN THE REPUBLIC OF KOREA (I)
(By Project)

Project No. Institute Counterpart(s)

NUCLEAR ENGINEERING AND TECHNOLOGY (cont'd)

ROK/4/021	Korea Atomic Energy Research Institute, Quality Assurance Department, Taejeon, Chung-Nam	YANG MYUNG-SEUNG
ROK/4/022	Korea Atomic Energy Research Institute, Nuclear Fuel Management Department, Taejeon, Chung-Nam	KANG YOUNG HWAN
ROK/4/023	Korea Atomic Energy Research Institute, Chemical Process Department, Taejeon, Chung-Nam	KIM YONG EAK
ROK/4/024	Korea Atomic Energy Research Institute, Taejeon, Chung-Nam	PAK DAY-YOUNG
ROK/4/025	Korea Atomic Energy Research Institute, Korea Cancer Centre Hospital Seoul	LEE JONG-DU

AGRICULTURE

ROK/5/019	Office of Rural Development, Institute of Agricultural Sciences, Suweon	KWAN SHIG RYU
ROK/5/020	Office of Rural Development, Institute of Agricultural Sciences, Suweon	TAE-YOUNG CHUNG
ROK/5/021	Chung Buk National University, College of Agriculture, Cheong Ju	LEE JAE KOO
ROK/5/022	1. Korea Advanced Institute of Science and Technology, Animal and Food Resources Laboratory, Seoul 2. Jeju National University, Applied Radioisotope Research Institute, Jeju	LEE NAM HYUNG CHOUNG D. CHANG-CHO

COUNTERPART INSTITUTIONS IN THE REPUBLIC OF KOREA (I)
(By Project)

<u>Project No.</u>	<u>Institute</u>	<u>Counterpart(s)</u>
<u>AGRICULTURE (cont'd)</u>		
ROK/5/023	Jeju National University, Applied Radioisotope Research Institute, Jeju	U ZANG KUAL
ROK/5/024	Office of Rural Development, Sericultural Experiment Station, Suweon	LEE WON-CHU
ROK/5/025	Rural Development Administration, Suweon	KUM K.K.
ROK/5/026	Chonnam National University, College of Agriculture, Department of Veterinary Medicine, Kwangju, Chonnam	KANG BYONG-KYU
ROK/5/027	Rural Development Administration, Agricultural Sciences Institute, Suweon	CHA DONG-YEOL
ROK/5/028	Rural Development Administration, Agricultural Sciences Institute, Suweon	PARK MOO-EON
ROK/5/029	Rural Development Administration, Agricultural Chemicals Research Institute, Suweon	BYUNG HUN SONG OH BYUNG-YOUL JAI-KI YOO
ROK/5/030	1. Rural Development Administration, Agricultural Chemicals Research Institute, Suweon 2. Rural Development Administration, Agricultural Sciences Institute, Suweon	OH BYUNG-YOUL PARK MOO-EON

COUNTERPART INSTITUTIONS IN THE REPUBLIC OF KOREA (I)
(By Project)

Project No. Institute Counterpart(s)

NUCLEAR TECHNIQUES IN BIOLOGY

ROK/7/002	Korea Ocean Research and Development Institute, Seoul	GI HOON HONG
ROK/7/003	Dankook University, School of Dentistry, Korea Biomaterial Research Institute, Cheonan, Seoul	YIM CHANG-JOON

NUCLEAR TECHNIQUES IN INDUSTRY AND HYDROLOGY

ROK/8/005	Korea Atomic Energy Research Institute, Korea Cancer Centre Hospital, Seoul	YUN TAIK KOO
ROK/8/006	Korea Institute of Energy and Resources, Seoul	-

NUCLEAR SAFETY

ROK/9/013	1. Ministry of Science and Technology, Atomic Energy Bureau, Gwa-Cheon, Kyunggi-Do 2. Korea Atomic Energy Research Institute, Taejeon, Chung-Nam	MOON KIM CHI CHA JONG HEE
ROK/9/014	Ministry of Science and Technology, Atomic Energy Bureau, Gwa-Cheon, Kyunggi-Do	HO NAM
ROK/9/018	Ministry of Science and Technology, Atomic Energy Bureau, Gwa-Cheon, Kyunggi-Do	MIN TAE-SHIK
ROK/9/021	1. Korea Atomic Energy Research Institute, Radwaste Division, Taejeon, Chung-Nam 2. Korea Institute of Energy and Resources, Seoul	IN SUK SUH YU IL HYON

COUNTERPART INSTITUTIONS IN THE REPUBLIC OF KOREA (I)
(By Project)

<u>Project No.</u>	<u>Institute</u>	<u>Counterpart(s)</u>
<u>NUCLEAR SAFETY</u> (cont'd)		
ROK/9/022	Ministry of Science and Technology, Atomic Energy Bureau Gwa-Cheon, Kyunggi-Do	BYOUNG DO KIM
ROK/9/023	Korea Atomic Energy Research Institute, Taejeon, Chung-Nam	KIM DONG HOON CHAE SUNG KI
ROK/9/025	Korea Institute of Nuclear Safety, Taejeon, Chung-Nam	EUN YOUNG-SOO
ROK/9/026	Korea Institute of Nuclear Safety, Taejeon, Chung-Nam	LEE SANG HOON
ROK/9/027	Korea Institute of Nuclear Safety, Taejeon, Chung-Nam	KIM SOCK CHIN
ROK/9/028	Korea Atomic Energy Research Institute, Taejeon, Chung-Nam	CHAE SUNG KI
ROK/9/029	Korea Institute of Nuclear Safety, Taejeon, Chung-Nam	CHON HANG YOUN
ROK/9/030	Korea Institute of Nuclear Safety, Taejeon, Chung-Nam	CHO HANG YOUN
ROK/9/031	Korea Atomic Energy Research Institute, Taejeon, Chung-Nam	YOO KUN JOONG
ROK/9/032	Korea Institute of Nuclear Safety, Taejeon, Chung-Nam	CHO HANG YOUN
ROK/9/033	Ministry of Science and Technology, Division of Nuclear Co-operation, Seoul	MOON YOU-HYUN
ROK/9/034	Korea Research Institute of Standards and Science, Taejeon, Chung-Nam	HWANG SUN-TAE
ROK/9/035	Ministry of Health and Social Affairs, National Institute of Health, Department of Radiation Standards, Seoul	LEE HAI-YONG

COUNTERPART INSTITUTIONS IN THE REPUBLIC OF KOREA (I)
(By Project)

<u>Project No.</u>	<u>Institute</u>	<u>Counterpart(s)</u>
<u>NUCLEAR SAFETY (cont'd)</u>		
ROK/9/036	1. Korea Institute of Nuclear Safety, Taejeon, Chung-Nam 2. Korea Atomic Energy Research Institute, Nuclear Training Centre, Taejeon, Chung-Nam	LEE JONG IN LEE YUN-PEEL IN SUK SUH
ROK/9/037	Korea Institute of Nuclear Safety, Taejeon, Chung-Nam	EUN YOUNG-SOO
ROK/9/038	Korea Research Institute of Standards and Science, Taejeon, Chung-Nam	HWANG SUN-TAE
ROK/9/039	Ministry of Health and Social Affairs, National Institute of Health, Department of Radiation Standards, Seoul	LEE HAI-YONG

COUNTERPART INSTITUTIONS IN THE REPUBLIC OF KOREA (II)
(By Institute)

SEOUL

Ministry of Science and Technology
Division of Nuclear Co-operation
Seoul

ROK/0/007 Manpower Development in Nuclear Science and Technology
ROK/9/033 OSART Mission to Wolsung Nuclear Power Plant

Ministry of Health and Social Affairs
National Institute of Health
Department of Radiation Standards
Seoul

ROK/1/006 Secondary Standards Dosimetry Laboratory (SSDL)
ROK/9/035 Establishment of a Biological Dosimetry Laboratory
ROK/9/039 Dosimetry in Medicine and Radiological Health

Korea Advanced Institute of Science and Technology
Department of Nuclear Engineering
Seoul

ROK/0/006 Energy and Nuclear Power Planning

Korea Advanced Institute of Science and Technology
Animal and Food Resources Laboratory
Seoul

ROK/5/022 Isotopes in Animal Production

Korea Institute of Energy and Resources
Seoul

ROK/3/004 Uranium Ore Analysis
ROK/8/006 Groundwater Resources Development
ROK/9/021 Radioactive Waste Disposal

COUNTERPART INSTITUTIONS IN THE REPUBLIC OF KOREA (II)
(By Institute)

SEOUL

**Korea Atomic Energy Research Institute
Korea Cancer Centre Hospital
Seoul**

ROK/4/025 Cyclotron Utilization for Medical Purposes
ROK/8/005 Industrial Applications

**Korea Atomic Energy Research Institute
Neutron Physics Department
Cheongryang, Seoul**

ROK/1/012 Study of Condensed Matter Physics by Neutron Beam Experiment

**Korea Electric Power Corporation
Nuclear Power Planning Department
Seoul**

ROK/4/012 Nuclear Manpower Development

**Korea Ocean Research and Development Institute
Seoul**

ROK/7/002 Marine Environmental Radioactivity

**Seoul National University
Department of Physics
Seoul**

ROK/1/009 Trace Element Analysis

**Dankook University
School of Dentistry
Korea Biomaterial Research Institute
Cheonan, Seoul**

ROK/7/003 Sterilization of Tissue Grafts

COUNTERPART INSTITUTIONS IN THE REPUBLIC OF KOREA (II)
(By Institute)

TAEJEON, CHUNG-NAM

**Korea Atomic Energy Research Institute
Taejeon, Chung-Nam**

ROK/4/014	Nuclear Fuel Cycle Technology
ROK/4/024	Ultrasonic Signal Analysis and Image Processing System
ROK/9/013	Nuclear Power Plant Safety
ROK/9/023	Nuclear Safety Research and Training
ROK/9/028	Nuclear Safety Research
ROK/9/031	Probabilistic Safety Assessment Techniques

**Korea Atomic Energy Research Institute
Nuclear Policy Research Department
Taejeon, Chung-Nam**

ROK/0/005	Public Acceptance of Nuclear Energy
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**Korea Atomic Energy Research Institute
Reactor Operation Division
Taejeon, Chung-Nam**

ROK/1/013	Materials Characterization with Research Reactor
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**Korea Atomic Energy Research Institute
Nuclear Training Centre
Taejeon, Chung-Nam**

ROK/4/012	Nuclear Manpower Development
ROK/4/016	Training Course on Stress Analysis
ROK/4/017	Review of Nuclear Manpower Programme
ROK/4/018	Training in Load-Following Technology for Power Reactors
ROK/4/019	Nuclear Power Plant Operator Training
ROK/4/020	Support for Nuclear Power Project Implementation
ROK/9/036	Nuclear Power and Safety Technology

**Korea Atomic Energy Research Institute
Quality Assurance Department
Taejeon, Chung-Nam**

ROK/4/021	Quality Assurance
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COUNTERPART INSTITUTIONS IN THE REPUBLIC OF KOREA (II)
(By Institute)

TAEJEON, CHUNG-NAM

**Korea Atomic Energy Research Institute
Nuclear Fuel Management Department
Taejeon, Chung-Nam**

ROK/4/022 Nuclear Fuel Qualification

**Korea Atomic Energy Research Institute
Chemical Process Department
Taejeon, Chung-Nam**

ROK/4/023 Nuclear Power Plant Water Chemistry

**Korea Atomic Energy Research Institute
Radwaste Division
Taejeon, Chung-Nam**

ROK/9/021 Radioactive Waste Disposal

**Korea Institute of Nuclear Safety
Taejeon, Chung-Nam**

ROK/4/013 Nuclear Power Plant Quality Assurance and Start-up Testing
ROK/9/025 Nuclear Power Plant Safety
ROK/9/026 Environmental Radiation Protection
ROK/9/027 Commissioning and Start-up Testing of Nuclear Power Plants
ROK/9/029 Nuclear Regulatory System
ROK/9/030 Regulatory Policy
ROK/9/032 Emergency Planning and Preparedness
ROK/9/036 Nuclear Power and Safety Technology
ROK/9/037 Strengthening National Safety Standards

**Korea Research Institute of Standards and Science
Taejeon, Chung-Nam**

ROK/1/007 Standardization of Neutron Measurements
ROK/9/034 Monitoring of Environmental Radiation
ROK/9/038 Monitoring Environmental Radiation (Phase II)

COUNTERPART INSTITUTIONS IN THE REPUBLIC OF KOREA (II)

(By Institute)

TAEJEON, CHUNG-NAM

**Korea Institute of Energy Resources
Taejeon, Chung-Nam**

ROK/3/006 Uranium Exploration

GWA-CHEON, KYUNGGI-DO

**Ministry of Science and Technology
Atomic Energy Bureau
Gwa-Cheon, Kyunggi-Do**

ROK/0/008 Manpower Development and Nuclear Technology Support
ROK/9/013 Nuclear Power Plant Safety
ROK/9/014 Quality Assurance
ROK/9/018 Radiation Safety of Nuclear Power Plants
ROK/9/022 Nuclear Waste Management (AEB)

JEJU

**Jeju National University
Applied Radioisotope Research Institute
Jeju**

ROK/5/022 Isotopes in Animal Production
ROK/5/023 Radioisotopes in Fertilizer Studies

COUNTERPART INSTITUTIONS IN THE REPUBLIC OF KOREA (II)
(By Institute)

SUWEON

**Office of Rural Development
Institute of Agricultural Sciences
Suweon**

ROK/5/019 Soil/Water Relationship Studies
ROK/5/020 Mutation Breeding

**Office of Rural Development
Sericultural Experiment Station
Suweon**

ROK/5/024 Isotope-Aided Studies on Mulberry Physiology

**Rural Development Administration
Suweon**

ROK/5/025 Isotopes and Radiation in Agricultural Research

**Rural Development Administration
Agricultural Sciences Institute
Suweon**

ROK/5/027 Processing of Agricultural Wastes for Animal Feed
ROK/5/028 Isotopes and Radiation in Agricultural Research
ROK/5/030 Impact of Agrochemicals in Greenhouse Farming

**Rural Development Administration
Agricultural Chemicals Research Institute
Suweon**

ROK/5/029 Activity and Environmental Fate of Pesticides
ROK/5/030 Impact of Agrochemicals in Greenhouse Farming

COUNTERPART INSTITUTIONS IN THE REPUBLIC OF KOREA (II)
(By Institute)

KWANGJU, CHONNAM

**Chonnam National University
College of Agriculture
Department of Veterinary Medicine
Kwangju, Chonnam**

ROK/5/026 Radioimmunoassay in Cattle Productivity Studies

CHEONG JU

**Chung Buk National University
College of Agriculture
Cheong Ju**

ROK/5/021 Pesticide Residues

**THE AGENCY'S TECHNICAL CO-OPERATION PROGRAMME WITH THE
REPUBLIC OF KOREA
(1985 - 1995)**

LONG-TERM EXPERT ASSIGNMENTS

ROK/4/013 Nuclear Power Plant Quality Assurance and Start-up Testing

- Task 02 - Quality assurance during commissioning
B. OESTERLING (SWE) Sep 85 - Sep 86 12.0 months
 - To participate in the pre-operational testing and operational preparedness of a PWR-type nuclear power plant and provide consultation and technical advise to the staff of the Nuclear Safety Centre when performing regulatory inspection function, including verification that systems and components are fully tested and satisfy design requirements and that management control and quality assurance programme for operation are implemented.

RESEARCH CONTRACTS/AGREEMENTS IN THE REPUBLIC OF KOREA SINCE 1985 ^{1/}
(As of 30 September 1995)

Field of activity	No. of contracts/ agreements	Amount allocated \$
General atomic energy development	2	^{2/}
Nuclear physics	2	14 000
Nuclear engineering and technology	14	100 500
Nuclear techniques in agriculture	16	105 105
Nuclear medicine	12	116 000
Nuclear techniques in biology	3	14 900
Nuclear techniques in industry & hydrology	1	^{3/}
Safety in nuclear energy	13	35 000
TOTAL	63	385 505

^{1/} New awards since 1985.

^{2/} Cost-free

^{3/} Cost-free

**SCIENTISTS FROM THE REPUBLIC OF KOREA SERVING AS AGENCY
TECHNICAL CO-OPERATION EXPERTS AND
TRAINING COURSE LECTURERS
OR
PARTICIPATING IN CO-ORDINATION MEETINGS
1985 - 1995
(As of 30 September 1995)**

Name	No. of assignments	Project(s)
BAE, HUN JAI	4	RAS/8/061, RAS/8/062
BO YOUN CHO	2	RAS/6/011, RAS/6/018
CHAE SONG SUK	1	INS/4/028
CHANG SI-YOUNG	3	RAS/9/006
CHEONG YONG-MOO	1	RAS/8/070
CHO SEUNG-YEON	1	RAS/9/006
CHO, NAM Z.	2	ROK/9/025, ROK/9/028
CHOI CHANG SUN	1	ROK/1/012
CHONG EUN CHUNG	1	INT/4/054
CHUNG BO HUN	1	INT/9/065
CHUNG JUNE-KEY	2	RAS/6/018, RAS/6/022
EUN YOUNG-SOO	1	INT/9/118
HONG LAE CHANG	1	RAS/8/071
HONG, GI HOON	1	RAS/8/065
HONG, SOON SHIN	1	RAS/8/061
JIN, JOON HA	8	RAS/0/015, RAS/8/061, RAS/8/062, RAS/8/068, RAS/8/071
JUN, BYUNG JIN	4	MAL/4/007, RAS/4/013, THA/4/010
JUNG, WON-DEA	1	ROM/4/017
KANG HAE DONG	1	ROK/0/007
KIM HHO-JUNG	1	EGY/9/018
KIM HUHN JUN	4	INT/0/045, RAS/4/011, RAS/8/061
KIM HYUN-JANG	1	RAS/4/015
KIM JANG-HEE	6	RAS/4/008

**SCIENTISTS FROM THE REPUBLIC OF KOREA SERVING AS AGENCY
TECHNICAL CO-OPERATION EXPERTS AND
TRAINING COURSE LECTURERS
OR
PARTICIPATING IN CO-ORDINATION MEETINGS
1985 - 1995
(As of 30 September 1995)**

Name	No. of assignments	Project(s)
KIM TAE-WHAN	2	RAS/0/019
KIM, GIL-JOE	1	INT/0/051
KIM, HYUN-KOON	1	PAK/9/017
KIM, JAE-ROK	5	RAS/8/008, RAS/8/011, RAS/8/061
KIM, MOON DUK	1	INT/0/058
KIM, SANG-YEONG	1	RAS/8/061
KIM, TAE-WOON	1	RAS/4/015
KIM, YONG JIN	1	RAS/9/006
KIM, YOUNG CHANG	4	INT/0/037, RAS/0/012, RAS/0/013
KOH, CHANG SOON	3	RAS/6/011
KOOK-JONG HAN	1	CPR/0/003
KWUN HEGEON	1	ROK/4/024
LEE BYOUNG WHI	3	INT/4/118, RAS/0/011, RAS/5/020
LEE CHANG KUN	2	INT/0/048
LEE HAI-YONG	1	RAS/9/006
LEE JONG-PO	3	RAS/8/061
LEE MAN KI	3	RAS/5/021, RAS/8/071
LEE YOUNG GUN	1	RAS/0/013
LEE, GUN BAE	1	RAS/9/006
LEE, HAN-MYUNG	1	RAS/0/013
LEE, HYO SOOK	1	BRA/4/036
LEE, JAI-KI	1	EGY/9/018
LEE, MAN KI	1	RAS/0/013
LEE MYUNG-CHUL	1	RAS/6/018

**SCIENTISTS FROM THE REPUBLIC OF KOREA SERVING AS AGENCY
TECHNICAL CO-OPERATION EXPERTS AND
TRAINING COURSE LECTURERS
OR
PARTICIPATING IN CO-ORDINATION MEETINGS
1985 - 1995
(As of 30 September 1995)**

Name	No. of assignments	Project(s)
LEE, SANG HOON	1	INT/9/086
MOON, P. SUC-HYONG	1	ROK/9/013
NA SEONG-HO	2	RAS/9/006, ROK/9/034
NHO, YOUNG CHANG	4	RAS/8/062, RAS/8/070
PARK JONG-WON	1	CPR/4/015
PARK KYUNG-BAE	1	RAS/0/015
PARK, JIN HO	1	PAK/9/017
PARK, JONG-SEUK	1	EGY/9/018
PARK, SUK-JUN	1	PAK/9/017
PARK, YEARN SUN	1	RAS/9/013
PYUN KYUNG BUM	1	RAS/9/006
PYUN, HYUNG-CHICK	2	RAS/8/011
RO HEE-BAEK	3	RAS/0/015, RAS/8/062
SHON, JAE-YOUNG	1	RAS/9/006
SONG, KI-DONG	2	RAS/0/013
SUH NAM-DUK	1	EGY/9/018
SUH, IN-SUK	3	INT/0/048, ROK/0/007
YIM CHANG-JOON	2	RAS/7/003
YOON DONG-NYEOL	1	RAS/8/061
YOON SUK-CHUL	1	RAS/9/006
YOUNG SAM CHUNG	2	RAS/8/071, RAS/9/006
TOTAL	123	

**AGENCY FELLOWSHIPS AND SCIENTIFIC VISITS
HOSTED BY THE REPUBLIC OF KOREA
1985 - 1995
(As of 30 September 1995)**

Recipient country	No. of fellowships	No. of scientific visits	TOTAL ¹
BANGLADESH	-	1	1
BRAZIL	-	1	1
CHINA	2	-	2
EGYPT	1	3	4
GREECE	-	1	1
INDONESIA	-	5	5
MALAYSIA	-	3	3
MOROCCO	-	4	4
PAKISTAN	3	5	8
ROMANIA	-	5	5
SLOVAK REPUBLIC	-	1	1
SRI LANKA	-	2	2
THAILAND	2	3	5
TURKEY	-	3	3
VENEZUELA	-	1	1
VIET NAM	1	3	4
TOTAL	9	41	50

1./ Includes trainees who have completed or at least started their studies.

**REGIONAL AND INTERREGIONAL GROUP TRAINING EVENTS
HOSTED BY THE REPUBLIC OF KOREA
1985 - 1995
(As of 30 September 1995)**

Course No.	Course Title	Partici- pants	Year
INT/0/059 (001)	ITC on Strengthening Nuclear Power Project Management	24	1995
RAS/0/013 (001)	RTC on Nuclear Power Project Planning and Implementation	15	1988
RAS/0/013 (003)	RTC on Nuclear Power Project Planning and Implementation	13	1989
RAS/0/013 (005)	Fourth RWS on Energy, Electricity and Nuclear Power Planning	10	1990
RAS/0/015 (004)	RTC on Nuclear Power Project Planning and Implementation	13	1990
RAS/0/015 (006)	RTC on Nuclear Power Pre-Project Activities and Manpower Development	15	1991
RAS/0/015 (014)	RTC on Non-Destructive Testing and evaluation in Nuclear Power Plants	9	1992
RAS/0/015 (019)	RTC on Industrial Applications of Non-Destructive Testing and Evaluation	15	1993
RAS/0/015 (021)	Regional (RCA) Training Course on Industrial Application of Non-Destructive Testing and Evaluation	15	1994
RAS/5/020 (008)	Regional Research Co-Ordination Meeting for RPF1 - Phase III	13	1993

**REGIONAL AND INTERREGIONAL GROUP TRAINING EVENTS
HOSTED BY THE REPUBLIC OF KOREA
1985 - 1995
(As of 30 September 1995)**

Course No.	Course Title	Partici- pants	Year
RAS/6/023 (001)	RTC on Radioimmunoassay and Immunoscinti- graphy for the Early Detection and Management of Cancer	19	1994
RAS/7/003 (003)	RTC on Radiation Sterilization of Tissue Grafts for Clinical Use in Health Care	16	1990
RAS/8/008 (049)	Regional First Executive Management Seminar on Industrial Tracer Applications	5	1986
RAS/8/061 (008)	RTC on Non-Destructive Testing of Ultrasonics (Level II)	10	1987
RAS/8/061 (026)	RTC on Non-Destructive Testing of Eddy Currents (Level II)	11	1988
RAS/8/062 (001)	Regional (RCA) Workshop on Photon, Electron and Neutron Dosimetry in Radiotherapy	13	1987
	TOTAL	216	