THE AGENCY'S TECHNICAL CO-OPERATION ACTIVITIES IN 1986

Report by the Director General

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INTERNATIONAL ATOMIC ENERGY AGENCY

PREFACE

Following its usual practice, the Board of Governors has requested the communication to the General Conference of the material it used in reviewing the Agency's technical co-operation activities in 1986; this material is accordingly reproduced in the present document. The review was carried out pursuant to paragraph 19 of the *Revised Guiding Principles and General Operating Rules Governing the Provision of Technical Assistance by the Agency.*[1]

1 See document INFCIRC/267.

CONTENTS

LIST OF ABBREVIATIONS

Agency	International Atomic Energy Agency
ARCAL	Regional Co-operative Arrangements for the Promotion of Nuclear Science and Technology in Latin America
CC	Convertible currency
FAO	Food and Agriculture Organization of the United Nations
IAEA	International Atomic Energy Agency
IFFIT	International Facility for Food Irradiation Technology
ILO	International Labour Organisation
NCC	Non-convertible currency
NENF	Division of Nuclear Fuel Cycle
NENP	Division of Nuclear Power
NENS	Division of Nuclear Safety
OPE	Office for Projects Execution, UNDP
RCA	Regional Co-operative Agreement for Research, Development and Training Related to Nuclear Science and Technology
RIAL	Agency's Laboratories
RIFA	Joint FAO/IAEA Division of Isotope and Radiation Applications of Atomic Energy for Food and Agricultural Development
RILS	Division of Life Sciences
RIPC	Division of Physics and Chemistry
SAC	Scientific Advisory Committee
TACC	Technical Assistance and Co-operation Committee
TACF	Technical Assistance and Co-operation Fund
UN/TCD	Department of Technical Co-operation for Development, United Nations
UNDP	United Nations Development Programme
UNEP	United Nations Environment Programme
UNESCO	United Nations Educational, Scientific and Cultural Organization
UNFSSTD	United Nations Financing System for Science and Technology for Development
UNIDO	United Nations Industrial Development Organization
WHO	World Health Organization

Byelorussian SSR	Byelorussian Soviet Socialist Republic
Dem. Kampuchea	Democratic Kampuchea
Dem. P.R. Korea	Democratic People's Republic of Korea
German D.R.	German Democratic Republic
Germany, F.R.	Federal Republic of Germany
Iran, I.R.	Islamic Republic of Iran
Korea, R.	Republic of Korea
Libyan A.J.	Libyan Arab Jamahiriya
P.R. Congo	People's Republic of the Congo
St. Christopher	St. Christopher-Nevis
Syrian A.R.	Syrian Arab Republic
Ukrainian SSR	Ukrainian Soviet Socialist Republic
USSR	Union of Soviet Socialist Republics
U.A. Emirates	United Arab Emirates
UK	United Kingdom of Great Britain and Northern Ireland
U.R. Tanzania	United Republic of Tanzania
USA	United States of America

Note: All sums of money are expressed in US dollars and have been rounded off to the nearest hundred or thousand dollars in most instances. Percentages have also been rounded off in statistical tables and figures.

GLOSSARY OF TERMS AND CONCEPTS

Adjusted programme - the total value of all technical co-operation activities approved for a given calendar year plus all approved assistance brought forward from previous years but not yet implemented.

Current-year net expenditure - net expenditure incurred in a calendar year against the current programme year.

Delivery - the actual assistance provided to Member States, e.g. experts in the field, expert man-months served, fellows trained and equipment provided.

Disbursements - actual cash outlays for goods provided and services rendered.

Dynamic programming - the process whereby funds released through rephasing and reprogramming are used to meet requirements of developing Member States through the implementation of approved projects for which funds would otherwise not be available; it serves to keep project planning realistic.

Earmarkings - amounts allotted for funding approved assistance awaiting implementation.

Extrabudgetary funds - funds provided by Member States for financing specific projects or activities. These funds are separate from voluntary contributions to the Technical Assistance and Co-operation Fund.

Financial year - the year in which a financial transaction takes place. In the Agency, the financial year and calendar year are identical.

Footnote-a/ projects - projects approved by the Board for which no immediate funds are available.

Funds in trust - funds received from Member States to finance assistance for themselves.

Future-year net expenditure - net expenditure incurred in a calendar year against programmes approved for future years.

Net expenditure - the sum of disbursements during the year and year-end unliquidated obligations minus unliquidated obligations carried over from the previous year.

Net expenditure rate - Net expenditure as a percentage of the adjusted programme.

Non-project assistance - the provision of assistance through technical co-operation activities, such as individual training, that are not part of specific projects.

Process evaluation - An evaluation of an organizational operation which is continuous and supporting in nature - e.g. an evaluation of the expert recruitment process or of the procurement of equipment for technical co-operation projects.

Programme year - the year for which an activity is planned.

Project assistance - the provision of experts, equipment and training within the framework of individual projects.

Regular Programme - the total value of project and non-project assistance approved in a given year, excluding UNDP and Special Programme assistance.

Rephasing - a temporary release of funds approved for inputs which were planned for a given programme year and which cannot be implemented as scheduled. Rephasing does not change total inputs approved for a project; rather, it serves to keep project planning realistic.

Reprogramming - a permanent release of funds approved for inputs which were planned for current or past years and which are no longer required. Reprogramming reduces the amounts previously approved for a project and enables new activities to be financed.

Reserve Fund - an amount set aside by the Board each year for financing assistance of an urgent nature requested after the Board has approved the Regular Programme for the year in question.

Special Programme - projects identified jointly by donor and recipient Member States and executed by the Agency utilizing extrabudgetary cash and in-kind contributions especially made for this purpose.

Technical Assistance and Co-operation Fund - at present, the main fund for the financing of the Agency's technical co-operation activities; it is supported by voluntary contributions from Member States.

UNDP Programme - projects executed by the Agency on behalf of UNDP and its associated funds, including UNFSSTD.

Unliquidated obligations - obligations incurred for which no cash outlays have yet been made.

Unobligated balance - total funds available less disbursements and less unliquidated obligations against the current year.

Unused balance - total funds available less disbursements and less all unliquidated obligations against the current year and future years.

I. Summary and Conclusions

- During 1986, a total of 854 projects were operational and 71 training courses were held. These activities involved 1930 expert assignments. In addition, 937 persons received training under the fellowship programme.

- Performance indicators (non-financial) are given in Part II of this report (Sections B and C) in order to provide some impression of the increase in implementation actions related to the delivery of a growing programme.

- Although total resources were higher in 1986 than in previous years, the overall growth rate declined further while new obligations and disbursements increased steeply.

- The near-stagnation in the net expenditure rate for Technical Assistance and Co-operation Fund (TACF) resources which occurred in 1985 prompted close monitoring and follow-up measures in 1986. These actions led to an all-time high TACF net expenditure rate, namely 75.7%, in 1986.

- As the TACF represented 71% of all technical co-operation resources, overall programme performance in terms of net expenditure reached 67.6%, which is also the highest rate ever recorded.

- TACF resources increased by 11%. Pledges and miscellaneous income covered 92.7% of the target. The percentage attainment of the target has been declining since 1983.

- As actual disbursements against the TACF increased at a much higher rate than new resources, the unobligated balance decreased to the extent that striving for even higher net expenditure rates would no longer be consistent with judicious resource management.

- The share of extrabudgetary funds in the programme declined: they accounted for 14.5% of the resources and 12.6% of the disbursements in 1986. The Federal Republic of Germany became the largest contributor of extrabudgetary funds. Special attention

will be given to the utilization of these resources so that delivery rates can be improved.

- As anticipated, UNDP's share in resources and disbursements increased and several new large-scale projects were approved.

- In-kind assistance continued to play a major role in Agency training activities. Close to one fifth of these activities depended on this type of assistance in 1986.

- From 1980 to 1986, the total volume of the technical assistance delivered by the Agency increased by 112.3%; during the same period, the staff of the Department of Technical Co-operation engaged in technical co-operation activities grew by 12.2%.

- The views of Member States expressed during the 1986 Policy Review Seminar and subsequent discussions will guide the future programme. Major emphasis will be placed on project quality. In its efforts to ensure that technical co-operation projects are consonant with Member States' development priorities, the Agency will seek to strengthen its co-operation with UNDP and other organizations of the United Nations system, particularly as regards programming and project formulation.

II. Review of the Agency's Technical Co-operation Activities

A. Overview

1. Programme and Implementation

Total on-going projects	854
New projects in 1986	450
Completed projects	95
Reports produced	292

1. The technical co-operation programme for 1986 as approved by the Board comprised 404 projects which had new budgetary provisions for 1986. In addition to these projects, the Board approved 83 projects or project components for which no source of financing had been identified. As there were also 404 operational projects financed from all sources and in various stages of implementation on the books on 1 January 1986, the total programme at the beginning of the year consisted of 808 active projects.

2. During the year, 22 footnote-a/ projects were made operational and 18 projects were approved under the Reserve Fund (see Annexes VIII and IX). In addition, six new UNDP projects were added to the programme (see Annex VI). Of the total of 854 projects which were operational during the year, 95 were completed and four were cancelled (see Annex VII), so that, at the end of the year, 755 projects were still operational. As shown in Annex III, 292 reports were produced covering these activities; 27 were published.

3. In addition, the Board approved the use of $2.3 million for individual fellowships and $3.2 million for training courses. Furthermore, a considerable amount of training was financed through in-kind assistance. A total of 71 training courses were held and 937 persons received training under the fellowship programme.

4. Of the assistance delivered in 1986, over one fifth (21%) related to agriculture, 17% to nuclear safety, 16% to reactor technology, 13% to industry and hydrology, 10% to physics, 8% to medicine and to general atomic energy development, 4% to geology and mining and 3% to chemistry. This involved 1930 expert assignments.

5. Many of the on-going projects were multi-funded (a single project may be financed from more than one source - the TACF, extrabudgetary resources, funds in trust and in-kind contributions). The projects making up the 1986 programme varied in size from 1 month of expert services, valued at $6,900, to major multi-year undertakings consisting of provisions for experts, equipment and training. The largest project in 1986 had a budget for that year of $743,000.

2. Resources and Delivery

Total new resources	$39.3 million
Adjusted current-year programme	$52.4 million
Net expenditure	$35.4 million
Net expenditure rate	67.6%
Disbursements and assistance in kind	$40.0 million

6. The total new resources available to the Agency for technical co-operation activities in 1986 represent an increase of 9.0% over the previous year. The TACF, which, at $27.9 million, accounted for 70.8% of all new resources, grew by 10.6%. Extrabudgetary resources provided 14.5% of all new funds, and UNDP's share rose to 8.9%. In-kind assistance declined to 5.8% of total new resources. Figure 1A illustrates the composition of new resources made available each year from 1980 through 1986.

7. The *new* resources made available to the Agency for technical co-operation activities for a given year are only a part of the total resources available to carry out the programme in that year. Similarly, the *new* programme approved for that year is only a part of the total programme to be delivered in that year. For example, the TACF part of the approved programme contains an element of overprogramming, and part of what is delivered each year was approved in prior years and resources were earmarked for it in those years. Moreover, in response to changing requirements in Member States, projects are cancelled, changed or rephased during the year, and new footnote-a/ projects are added to the programme when additional funds become available.

8. The "adjusted programme" reflects all these fluctuations and represents the total value of all technical co-operation activities approved for a given calendar year plus all approved assistance brought forward from previous years but not yet implemented. In the total adjusted programme for 1986, the TACF accounted for 70.7%, extrabudgetary funds and funds in trust for 21.4%, and UNDP for 7.9%

9. When the Agency enters into contractual agreements - say - for equipment or expert services, funds are either disbursed or obligated. Since at that point all actions needed to start the delivery of the technical assistance involved have been completed, these funds are considered as having been expended, as they can no longer be used for any other purpose.

10. Of the total amount of $35.4 million expended in 1986, the TACF accounted for 79.2%, extrabudgetary funds and funds in trust for 11.0%, and UNDP for 9.8%. Not reflected in these figures are implementation actions taken against future-year programmes; they resulted in the expenditure of an additional $3.4 million which will be disbursed in future years, when resources are available.

11. The following table summarizes net expenditure rates for each fund over the last four years and illustrates the steep increase in net expenditure in 1986, particularly for the TACF:

Net expenditure rates by fund
as a percentage of the adjusted programme

Year	TACF (%)	Funds in trust (%)	Extrabudgetary funds (%)	UNDP (%)	Total (%)
1983	57.9	97.3	31.1	91.8	53.7
1984	65.0	22.7	44.4	81.6	59.3
1985	66.3	24.3	35.4	76.3	57.9
1986	75.7	68.7	32.2	83.7	67.6

12. A more detailed overview of the status of the total programme at the end of 1986 is given in Expenditure Summary I. It should be noted that the in-kind assistance received in support of technical co-operation is not included in the Expenditure Summaries. In this assistance category, resource levels and net expenditure are equal as both are recorded only at year-end, after delivery has taken place.

13. In many cases, the delivery of technical co-operation inputs to the recipient country and the actual disbursement of funds for payment may take place some time after the funds have been obligated. The total disbursements during a particular year are therefore not equal to net expenditure, since they usually include disbursements of funds obligated and reported as expended in a prior year. As disbursements may be considered to represent technical assistance already provided to recipient countries, the value of the assistance in kind ($2.3 million in 1986) is included in the total disbursement figure of $40.0 million. Tables showing disbursements (such as Tables 4, 7 and 8) are all based on this figure.

B. Review by Activity

1. Experts

14. The following table provides a five-year perspective of the delivery of expert services. Further information on expert services (where experts came from and where they went) is given in Figures 2A and 2B and in Tables 3A and 6A.

Year	Number of persons	Number of assignments	Number of man-months	Man-months per assignment
1982	642	932	963	1.03
1983	758	1,099	1,020	0.93
1984	1,017	1,530	1,550	1.01
1985	1,188	1,846	1,585	0.86
1986	1,168	1,930	1,516	0.79
Increase over five years (%)	81.9	107.1	57.4	

15. From the standpoint of the recipient Member State, the number of man-months delivered is probably the most significant element in the above table. In this respect, there was a decline of 69 man-months, or 4.4%, compared with 1985. As regards the Secretariat's workload, the number of expert assignments is more relevant; that rose by 84, or 4.6%.

16. The trend towards shorter assignments (in 1981, the average duration was 1.45 man-months) has continued. Although it is particularly difficult for the Agency to obtain highly specialized experts for extended missions, the trend towards shorter assignments has been noticed in other United Nations organizations. At a meeting of a working group of the Committee of the Whole of UNDP's Governing Council held in February 1987, in which a number of United Nations organizations participated, it was generally felt that the trend was an indication of growing self-reliance in recipient countries. Still, there are problems associated with the trend, especially where longer assignments are desirable in order that experts may become more closely involved in the projects which they are servicing. All organizations expressed concern over the fact that it now takes more staff time to deliver a given amount of assistance.

17. The shorter average length of assignments has also led to higher man-month costs in many organizations as more travel is involved. For the Agency, the increase in man-month costs has been less pronounced since many assignments are undertaken by Agency staff members whose salaries, if the assignment is short, are not charged to the technical co-operation programme. In addition, the Agency has been able to keep its

experts' fees low compared with the fees paid by most other United Nations organizations.

18. In the Agency, the net expenditure rate for the expert component increased from 51% in 1985 to 55.1% in 1986. The increasing net expenditure rate, together with reprogramming, resulted in a further decrease in the proportion of expert services in the total approved but unimplemented assistance. While in 1984 over half of the earmarked TACF funds related to experts, this is now down to 38.9%, well below the equipment component's share of earmarkings.

2. Equipment

19. After declining in 1985, the net expenditure rate for the equipment component rose to 67.9%. As the adjusted programme had grown by nearly $1.9 million, this was achieved by an increase in net expenditure of $2.3 million. As a result, the earmarkings for equipment, which had increased sharply in 1985, dropped again.

20. A number of indicators of performance of the Field Procurement Section are given in the following table. For further information on equipment delivery (where equipment came from and where it went), see Figures 3A and 3B.

Year	Adjusted programme ($ millions)	Net expenditure ($ millions)	Net expenditure rate (%)	Earmarkings ($ millions)	Disbursements ($ millions)	Number of purchase orders
1981	-	-	-	-	9.9	1,759
1982	-	-	-	-	11.5	2,286
1983	19.1	11.7	61.2	7.4	14.7	2,405
1984	23.0	15.3	66.8	7.6	17.3	2,970
1985	24.9	15.9	63.8	9.0	16.0	3,391
1986	26.7	18.1	67.9	8.6	19.5	3,738

21. There is no fixed relationship between the number of purchase orders processed and the amount of resources expended. While performance in terms of funds obligated or disbursed may not be a precise indicator of workloads or performance, neither is the number of purchase orders. While some purchase orders may be placed in a routine manner, others may require elaborate and time-consuming searching of markets and lengthy negotiation procedures. Nevertheless in 1986 the Field Procurement Section processed 112.5% more purchase orders than five years ago.

22. It should also not be overlooked that the staff in the Field Procurement Section are heavily involved in the preparation of each new annual programme. The equipment aspect of new project requests has to be analysed and costed; judgement and advice are needed as to potential sources of the requested equipment in order to decide, for purposes of programming, on the most appropriate currency.

3. Fellowships

23. The number of fellows undergoing training in 1986 was, at 734, the highest ever recorded in any one year, as was the number of man-months of training provided (3,610). The average duration of a fellowship, which had risen to 5.4 man-months in 1985, fell back to the 1984 average of 4.9 man-months.

24. As the table below shows, increases were also recorded in the number of visiting scientists, which has been rising rapidly since 1984. While the number of visiting scientists increased by 8%, the man-months delivered rose by 26.9% as compared to 1985. Additional information on the fellowship programme is given in Figures 4A and 4B, Tables 3B and 6B and Annex V.

Year	Adjusted programme ($ millions)	Net expenditure ($ millions)	Net expenditure rate (%)	Ear-markings ($ millions)	Number of fellows	Number of fellowship man-months	Number of visiting scientists	Number of visiting scientist man-months
1982	-	-	-	-	551	3097	41	24
1983	3.7	2.8	75.3	0.9	612	3055	65	34
1984	4.3	3.8	90.0	0.4	702	3423	123	67
1985	4.5	3.2	72.0	1.2	615	3323	188	108
1986	6.4	5.0	78.3	1.4	734	3610	203	137
Increase over five years (%)					33	17	395	471

25. Owing to late nominations, delays are occurring in the implementation of fellowships for which allocations have been included within specific project budgets. Member States have therefore been urged to submit such fellowship nominations simultaneously with their project requests.

4. Training Courses

26. As both financial and staff resources are limited, the training course programme of the Agency has to be based on a careful assessment of proposals received from Technical Divisions and Member States. Recommendations from SAC and from evaluation reviews are taken into account together with the experience gained with previous courses. Availability of appropriate facilities in various Member States have to be considered as well as proper timing and spacing of the courses.

27. During 1986, 71 training courses and study tours were organized compared to 60 in 1985. The largest increase took place in the category of regional training courses, in particular under the RCA (Asia) and ARCAL (Latin America) co-operation schemes. Annex II lists these courses in greater detail. While the number of course participants increased, the average duration of the events was somewhat shorter so that the total number of man-months training provided through this modality was lower than in 1985.

28. For training courses on nuclear power and safety, the Agency continued to use traditional host institutes - namely, Argonne (USA), Buenos Aires (Argentina), Karlsruhe (the Federal Republic of Germany), Saclay (France), and Bristol (UK). For agricultural applications (soil science, plant breeding etc.), the Agency's own laboratory in Seibersdorf near Vienna proved to be an ideal training centre. Otherwise, it is noteworthy that the majority of the 1986 courses, namely 52, were held in developing countries against 19 in industrialized countries.

29. The following table provides an overview of the development of the training course programme during the last few years. Figures 4A and 4B, Tables 3B and 6B and Annex II give further information on the training course programme.

Year	Adjusted programme ($ millions)	Net expenditure ($millions)	Net expenditure rate (%)	Earmarkings ($ millions)	Number of courses	Number of participants	Number of man-months
1982	-	-	-	-	36	703	830
1983	3.3	2.5	76.7	0.8	35	659	937
1984	4.2	3.7	87.1	0.5	51	850	1220
1985	4.0	3.4	85.2	0.6	60	926	1098
1986	4.6	4.3	93.5	0.3	71	972	992
Increase over five years (%)					97	38	22

5. Sub-contracts

30. Only 2.3 per cent of the total adjusted programme in 1986 was envisaged for sub-contracts, and of the total net expenditure of $35.4 million only $506,000, or 1.4%, related to this component.

31. Most sub-contracts relate to the special programmes financed from extrabudgetary resources, so that the percentage of TACF funds disbursed for sub-contracts is even lower.

32. Although sub-contracts are a particularly suitable modality for major projects where all services and equipment are provided from one source, net expenditure rates over the last few years, as shown below, indicate that they do not in themselves guarantee faster delivery of technical assistance than that achieved by the Agency's own implementation Sections.

Year	Adjusted programme ($)	Net expenditure ($)	Net expenditure rate (%)	Earmarkings ($)
1983	3,158,164	932,451	29.5	2,225,713
1984	6,763,730	1,774,654	26.2	4,989,076
1985	5,107,505	831,622	16.3	4,275,883
1986	1,229,604	506,740	41.2	722,864

33. The sharp decline from 1985 to 1986 in the sub-contracts adjusted programme and in the corresponding earmarkings was due to the suspension of the Misr-Med project.

C. Review by Division

34. Implementation of the Agency's technical co-operation programmes would not be possible without the intense and active participation of the Department of Research and Isotopes and the Department of Nuclear Energy and Safety.

35. The technical expertise of which these Departments are the repository is not only brought to bear upon the shaping of the programme through the appraisal of new requests or through the technical backstopping of projects but is also made available directly to the developing Member States through the numerous assignments carried out by the Agency's technical officers, either as experts or as lecturers.

36. During 1986, 449 such assignments totalling 145 man-months were carried out of which 356 related to expert and 93 to lecturer assignments (1985: 418 assignments and 128 man-months).

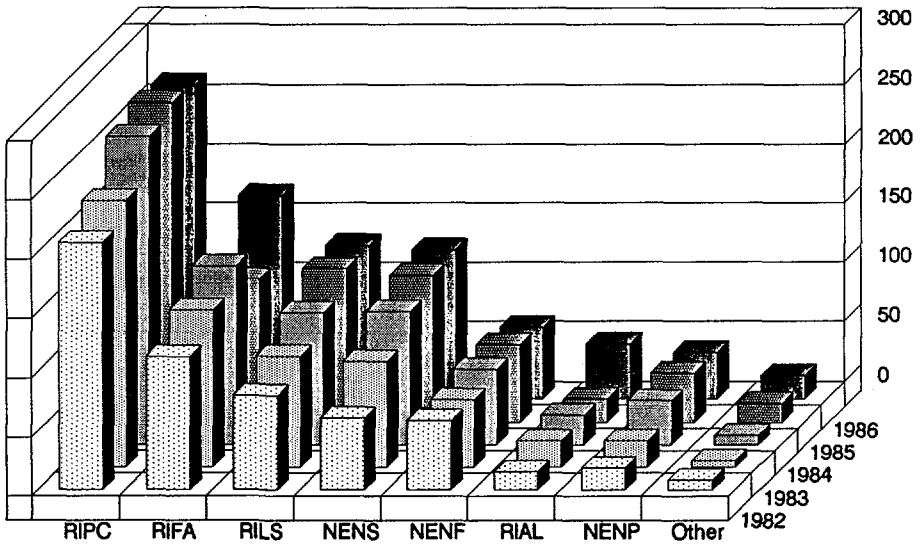
37. The number of technical officers providing support to on-going projects increased from 121 to 130 and the number of projects from 833 to 854. In addition, technical officers appraised 647 project requests received from Member States for the 1987 programme. The number of on-going projects handled by individual technical officers still varied widely, from 1 to 66, but this range was much narrower than that which prevailed in previous years.

38. In addition to the tasks referred to above, technical officers also continued to evaluate fellowship applications, whose number increased from 926 in 1985 to 1060 in 1986.

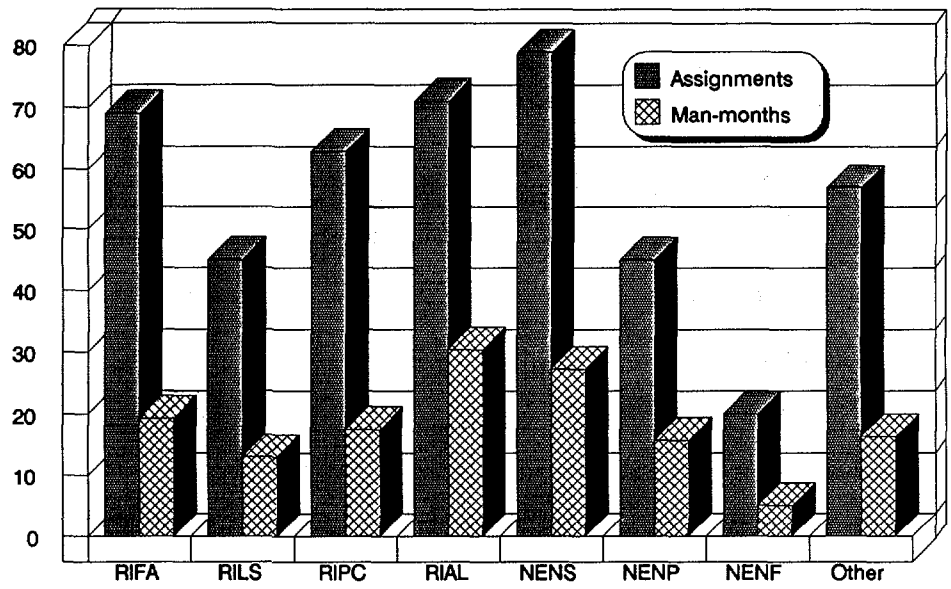
39. The data contained in Expenditure Summary III, and in the various bar charts and tables which follow, provide a picture of the involvement of the technical Divisions in technical co-operation activities and give an indication of the workload this entails.

Department/ Division	Number of technical officers	Number of projects supported	Number of fellowship applications evaluated
Research and Isotopes			
RIFA	23	171	219
RILS	14	129	153
RIPC	18	264	257
RIAL	12	46	47
Sub-total	67	610	676
Nuclear Energy			
NENS	26	125	215
NENP	12	39	66
NENF	12	60	86
Sub-total	50	224	367
Other	13	20	17
TOTAL	130	854	1060

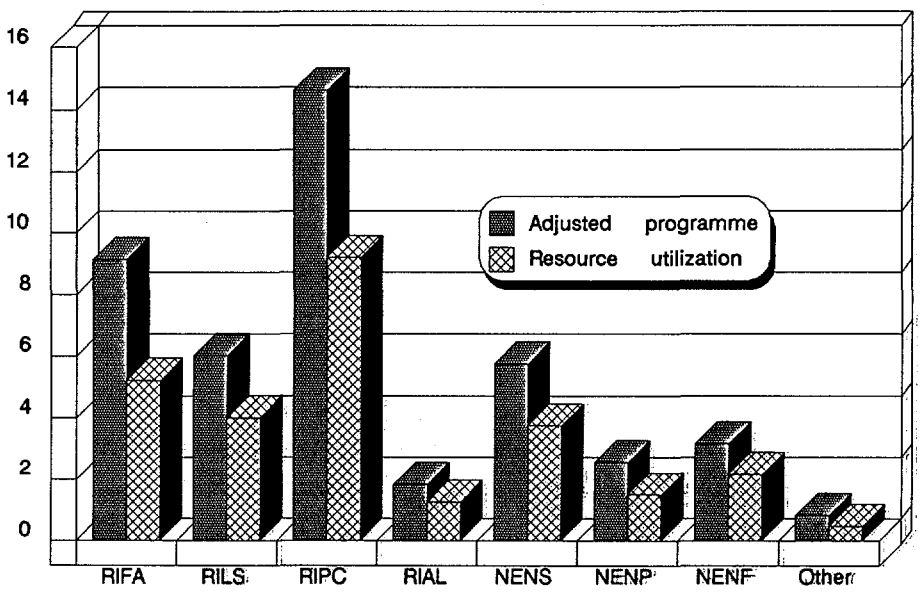
PROJECT WORKLOADS BY DIVISION
1982-1986



TECHNICAL SUPPORT FOR PROJECTS: 1986
EXPERT AND LECTURER ASSSIGNMENTS



TECHNICAL SUPPORT FOR PROJECTS: 1986
ADJUSTED PROGRAMME AND UTILIZATION
(in millions of dollars)



D. Review by Fund

1. Technical Assistance and Co-operation Fund

Resources	$27.9 million (70.8% of total resources)
Adjusted programme	$37.0 million (70.7% of total)
Net expenditure	$28.0 million (79.2% of total)
Net expenditure rate	75.7%
Disbursements	$29.7 million (74.2% of total)

40. The growth of the TACF over the last 10 years is shown in Tables 1 and 2. The total amount made available to the TACF rose during 1986 by 10.6%. The resulting amount of $27.9 million, which includes other income (miscellaneous income, adjustments to prior years' programmes and exchange adjustments), represents 92.7% of the 1986 target. This "other" income, which had risen in 1984 and 1985, declined in 1986. This was due mainly to much lower receipts of interest income and assessed programme costs.

41. From 1983 to 1985, the adjusted programme increased more rapidly than net expenditure, so that earmarkings - representing approved assistance awaiting implementation - increased as well. This gave rise to concern, and a concerted effort was made during 1986 to increase project implementation.

42. The availability of computerized monitoring tools made possible the prompt identification of any area, component, field or project where net expenditure was lagging behind the expected average at a given time. As such information usually provides a good indication of implementation problems, these were identified and early remedial action taken. Where warranted, measures such as the reprogramming and rephasing of resources were also applied. Through this type of systematic and intensive monitoring, it was possible to achieve the highest expenditure rate, 75.7%, ever recorded for the TACF. The following table provides a four-year comparison of TACF net expenditure:

Year	Adjusted programme ($)	Net expenditure ($)	Net expenditure rate (%)	Earmarkings ($)
1983	27,107,465	15,687,881	57.9	11,419,584
1984	33,344,604	21,670,547	65.0	11,674,057
1985	34,810,179	23,064,817	66.3	11,745,362
1986	37,020,799	28,015,778	75.7	9,005,021

43. Over and above the $28 million expended against the current-year programme, implementation actions were initiated against future years. These resulted in commitments of $3.4 million against future-year components of approved multi-year projects.

44. In addition to achieving a reduction in earmarkings through higher net expenditure, actual *disbursements* against the TACF continued to increase - and at a higher rate than new resources available to the fund. In 1986, disbursements increased steeply, by 28.7%, so that the unobligated balance fell for the third consecutive year.

45. It was pointed out in the report on the Agency's technical co-operation activities in 1985[1] that, in order to ensure financial integrity of the TACF, a level of unobligated balances in the range of 20-25% of the resources available at year-end should be considered acceptable. By the end of 1986, the unobligated balance represented only 11.4% of the available resources (this assumes that all contributions pledged for 1986 - which are taken as "available resources" - will indeed be paid).

46. The situation has therefore changed considerably over the last few years. Until 1983, it seemed that increases in available funds were outpacing the Agency's capacity for handling them; it is now evident that calls for even higher TACF net expenditure would no longer be prudent. This becomes particularly apparent when one considers that the unobligated balance represents the total funds available less disbursements and less unliquidated obligations against the current year only. If unliquidated obligations against future years are also taken into account, the amount that remains is the total unused balance at year-end. This unused balance, $8.9 million in 1983, had dwindled to $316,778 by the end of 1986. The following table summarizes the above-mentioned developments:

Year	Annual increase in resources (%)	Annual increase in disbursements (%)	Unobligated balance at year-end	Unused balance at year-end
1982	23.5	28.9	9,042,606	6,756,763
1983	20.2	24.4	11,374,918	8,907,250
1984	15.5	20.2	10,811,786	5,222,425
1985	13.3	14.6	9,454,860	3,905,213
1986	10.6	28.7	5,968,659	316,778

47. The Secretariat has always ensured that overprogramming is not cumulative. In a situation of high net expenditure this becomes even more crucial. In new technical co-operation programmes submitted to the Board account is taken of the overprogramming still "on the books" in respect of the technical assistance not yet delivered. This is done by deducting the overprogrammed amount from the estimated new resources for the new programme. The new programme is based on the reduced amount plus a maximum of 10% overprogramming as allowed by the Board. Planned overprogram-

1) See paragraph 47 of document GC(XXX)/INF/234.

ming in respect of the 1986 programme amounted to 9.9%; actual overprogramming at the end of the year reached 13.3%. This was in part due to a reduced level of miscellaneous income.

48. During the year, the adjusted programme is monitored closely and many changes are effected, releasing resources through project cancellations, savings on project completions, normal "programme changes" and rephasings. In 1987, such resources will first be used to reduce the amount of overprogramming before any upgrading of footnote-a/ projects from TACF resources is considered.

49. Approvals made during 1986 against the *Reserve Fund* are listed in Annex IX. Total approvals, which fluctuate from year to year, amounted to $354,980 in 1986. During the year, it became apparent that several urgent requests could not be met from the Reserve Fund since they exceeded the $25,000 ceiling for any single project, if only by a few thousand dollars. Approval by the Board in February 1987 of a TACC recommendation that the per-project ceiling be increased to $50,000 will help significantly in maintaining the effectiveness of the Reserve Fund.

50. In view of the importance of the TACF for the Agency's technical co-operation programme, the status of the TACF as at 31 December 1986 is shown separately in Expenditure Summary II.

2. Extrabudgetary Resources

Resources	$5.7 million (14.5% of total)
Adjusted programme	$11.2 million (21.4% of total)
Net expenditure	$3.9 million (11.0% of total)
Net expenditure rate	34.8%
Disbursements	$5.0 million (12.6% of total)

51. A considerable fraction of the extrabudgetary resources made available for regular technical co-operation activities was donated in support of operational projects. The amount available for upgrading footnote-a/ projects was therefore lower than in 1985. The following table shows that the share of footnote-a/ projects made operational has declined steadily over the past five years:

At year-end	Approved footnote-a/ projects ($)	Footnote-a/ projects & components made operational ($)	Share of footnote-a/ projects made operational (%)
1982	3,952,000	2,837,800	71.8
1983	5,125,400	3,351,870	65.4
1984	5,187,000	3,222,260	62.1
1985	7,779,500	4,187,000	53.8
1986	8,361,205	3,455,500	41.3

52. The Federal Republic of Germany became the largest single contributor of extrabudgetary funds for technical co-operation in 1986 ($1.3 million), closely followed by the USA ($1.2 million) and the USSR ($0.9 million). The bulk of the new extrabudgetary resources (86.7%) was received for activities included in the 1986 regular programme of technical co-operation; only $0.8 million was made available for the special programme. Cash contributions were also made by Australia and Japan in 1986 for co-ordinated research within the framework of the RCA.

53. Owing to the cancellation of the Misr-Med project in Egypt, substantial funds donated by Italy from 1983 onwards had to be redistributed, partly to projects not administered under technical co-operation programmes. This necessitated various adjustments in the entries relating to extrabudgetary resources in Figure 1A.

54. Again only a very modest part of the extrabudgetary programme was financed from funds in trust, which accounted for only 5% of available resources and for just over 1% of the total expenditures against these resources.

55. The implementation of projects financed from extrabudgetary funds remains unsatisfactory. The main factors which make it difficult to utilize these funds promptly during the year in which they become available were discussed in the report on the Agency's technical co-operation activities in 1985 (see document GC(XXX)/INF/234, paragraph 53). Those factors continued to apply in 1986, although more of the extrabudgetary funds received were made available earlier in the year than had been the case in previous years. Special attention is being paid in 1987 to bringing performance levels in this segment of the programme into line with those prevailing for TACF-financed projects. Continued close co-operation with major donors in identifying sources of services and equipment will be essential in this regard.

3. UNDP

Resources	$3.5 million (8.9% of total)
Adjusted programme	$4.2 million (7.9% of total)
Net expenditure	$3.5 million (9.8% of total)
Net expenditure rate	83.7%
Disbursements	$3.0 million (7.5% of total)

56. The predicted increase in UNDP's share in the Agency's technical co-operation activities has taken place. The decline in resources was arrested in 1985 and resources increased by 31.1% in 1986; disbursements rose by 16.7%. The following table gives an overview of the gradual improvement:

Year	Adjusted programme ($)	Net expenditure ($)	Net expenditure rate (%)	Earmarkings ($)
1983	4,037,446	3,705,628	91.8	331,818
1984	3,112,964	2,541,287	81.6	571,677
1985	3,475,903	2,653,512	76.3	822,391
1986	4,157,676	3,480,543	83.7	677,133

57. During 1986, six UNDP-financed projects were completed and two new ones approved, so that 21 such were under implementation. These projects are listed in Annex VI. The IAEA also acted as an associated agency for four UNDP-financed projects executed by UN/TCD, OPE and the Government of China. As has been stated in the past, the size of the UNDP programme which the Agency is requested to execute is determined neither by UNDP nor by the Agency; it is based solely on the priority that governments give to requests for projects in the Agency's area of expertise. As UNDP allocates a fixed amount of resources to each country, only project requests regarded as being of high priority by national co-ordinating or planning authorities are included in UNDP country programmes.

4. Assistance in Kind

Resources	$2.3 million (5.8% of total)
Disbursements	$2.3 million (5.7% of total)

58. The concepts of "adjusted programme", "net expenditure" and "net expenditure rate" cannot be applied to assistance in kind. As recorded at year-end,the value of the assistance in kind provided in 1986 declined by nearly $0.5 million from the level in 1985. As is shown in Annex I, the United States remained the largest contributor ($923,600), followed by the Federal Republic of Germany, which became the second largest contributor of in-kind resources ($136,500). Of the 82 Member States which received technical assistance in 1986, 35 were also contributors of assistance in kind in support of activities elsewhere.

59. Support provided to the Agency's training activities through in-kind arrangements has become indispensable. Most in-kind resources (81.3%) went for training activities, either for fellowships (65.9%) or training courses (15.4%). A total of 770 man-months of fellowship training valued at $1.5 million and four training courses could be financed entirely from this resource. In addition, the services of 147 individual lecturers were provided for other Agency-sponsored training activities. The remaining 18.7% of the value of in-kind assistance was received in the form of expert services; 168 experts from 46 countries and 4 experts from 3 organizations were provided either completely or partially cost-free.

III. Special Issues

A. Co-ordination of Technical Co-operation

60. To achieve maximum results from technical co-operation, the proper co-ordination of external inputs is a necessity. As each external input calls for its share of limited national counterpart resources, co-ordination of assistance within the recipient country is essential in order to maintain the integrity of national development priorities. Obviously, developing countries themselves are responsible for setting their policies and priorities, and central responsibility for aid co-ordination rests with each recipient government.

61. However, although these principles were always recognized in theory, in practice the vast array of bilateral and multilateral organizations appealing to different sectoral interests within a country and each convinced that it is offering indispensable assistance - and each imposing different administrative procedures on the national counterparts - did not facilitate co-ordination efforts in recipient countries and sometimes even undermined the entire development effort.

62. Recently, the donor community at large, facing increased pressure on declining resources available for technical co-operation, has become more aware that aid co-ordination is also essential on the originating side and has become more determined to avoid overlap and duplication.

63. In the United Nations system, these concerns have been alive for many years. The General Assembly, in resolution 41/171 of 5 December 1986, drew attention to the above issues, stressing in this context the importance of UNDP country programmes and the network of UNDP field offices as a framework for promoting better co-ordination of technical co-operation activities throughout the United Nations system.

64. Governments and organizations of the United Nations system, including the Agency, have been urged to make use of country programmes, which are prepared by recipient governments in close co-operation with UNDP, as a frame of reference for their technical co-operation programmes, irrespective of the source of funding. Some major donors recently announced that, in future, they would seek to attune their bilateral projects more closely to the priorities reflected in country programmes.

65. With the rapid growth of the Agency's regular programme of technical co-operation and the decline in UNDP-financed activities, programmatic co-ordination has become more problematic. Although the Agency relies on UNDP field offices for

project support and close contacts are maintained with UNDP resident representatives, there is a need to intensify co-operation with UNDP field offices.

66. Favourable conditions exist for intensifying collaboration also in the programming and project design stage. Formulating programmes which are relevant to real needs will require the interaction of all parties concerned at the country level. The Agency's existing pre-project assistance efforts are helping on an ad-hoc basis, but achieving this goal in a systematic manner presupposes that sufficient travel funds are available for Area Office staff to intensify their country visits.

67. Apart from its relationship with UNDP, the Secretariat has established close contacts with other organizations dealing with technical co-operation within and outside the United Nations system . Projects and programmes have been or are being carried out in association with FAO, WHO, ILO, UNESCO, UNEP, UNIDO and the World Bank, and with bilateral organizations. Although, in many cases, the co-operation has been going on for years, it is basically project-oriented and therefore of an ad-hoc nature. The Secretariat is exploring the possibility of analysing the programmes of other organizations more systematically, with a view to bringing the the Agency's capabilities to the attention of those organizations and suggesting ways in which it could support planned or on-going undertakings.

68. While various initiatives can and will be taken by the Secretariat, co-operation and co-ordination cannot be a one-way process. Both donor and recipient Member States could provide invaluable help if they were to analyse their own technical co-operation programmes in order to identify and bring to the Secretariat's attention those areas where the Agency's specific expertise could make meaningful contributions.

B. Evaluation

69. Evaluation has become an integral part of the Agency's technical co-operation activities and is playing an important role in the efforts of the Secretariat to make these activities more effective. In 1986, the project and process evaluations carried out have resulted in a number of recommendations for improving the quality of the programme.

70. Periodic monitoring of all operational projects through the interim project implementation system, introduced in 1984, continued in 1986. The system is now well established and the rate of reporting from the field is increasing steadily; over 700 interim reports were completed in 1986. The various problems reported - delays in the selection and placement of fellows, delays in providing expert services, delays in the construction of facilities to be provided by recipient Governments, difficulties with Agency-supplied equipment - show a continuing need for increased efforts, on the part both of the recipient governments and of the Agency, to improve project design and implementation.

71. Corrective actions were taken immediately as individual problems were reported. In addition, where patterns of problems common to many projects were

detected, efforts were made to deal with them as general implementation issues rather than waiting for such difficulties to recur. In particular, progress is being made with regard to equipment problems and in shortening the delays in providing Member States with the reports of experts.

72. In general, further efforts must be made to clarify project objectives, to specify expected results and to establish meaningful targets and milestones which can be referred to during project implementation. This is especially important for larger, multi-year projects, where the majority of delays were reported.

73. Mid-project and end-of-project evaluations of 48 projects were conducted in 1986. In selecting these projects, every effort was made to cover - to the extent possible - the full range of activities supported under the Agency's technical co-operation programme. It is hoped that, in this way, the relatively small number of in-depth evaluations that can be conducted, given current resource constraints, will have a wider impact. The areas covered by such evaluations in 1986 included nuclear electronics, applied nuclear science laboratories, the fate of trypanocidal drugs in cattle, industrial applications of isotopes and radiation technology, non-destructive testing and radiation protection, including the Operational Safety Review Team (OSART) programme.

74. An evaluation of the Agency's programme of nuclear power training courses, initiated at the request of the Board of Governors, was completed in 1986; it led to four major recommendations designed to strengthen this programme. Special reviews of the fellowship programme, the programme of scientific visits and the provision of expert services were started in 1986, and it is expected that they will be completed in 1987.

C. Women's Participation in Technical Co-operation Activities

75. For a number of years, the role of women in development has been receiving increasing attention in the governing bodies of the United Nations system. In connection with the United Nations Decade for Women, an appeal was made to organizations within the system to assess and enhance women's participation in development efforts.

76. In 1985, UNDP, along with a number of other United Nations agencies, appraised what had been accomplished and the obstacles encountered. This led to a UNDP Governing Council decision (85/7) urging governments and organizations within the United Nations system to implement a number of measures aimed at increasing the participation of women, both as beneficiaries and agents, in development activities. Agencies were also called upon to introduce systematic reporting on the participation of women.

77. The overall aim of the recommended measures is to ensure that full consideration is given to women as a development resource and that due attention is paid to the needs of women. This is particularly relevant during the design stage of large-scale projects where grassroot-level support for community development is required.

78. Although the majority of the Agency's technical co-operation projects clearly fall outside the scope of "community development", the Secretariat has been studying the issue of women's participation in its technical co-operation activities for some time. Moreover, interest in this issue has been expressed during meetings of the Agency's Board of Governors, where requests have been made for data on training and fellowship awards to women.

79. To monitor the degree of participation of women in the technical co-operation programme, the Secretariat has established a data base from which such information on fellows, training course participants and visiting scientists can be obtained. Similar information is available for international experts, national experts, lecturers and all counterparts working on Agency-assisted projects.

80. The data, which are complete for all the above categories of persons as from 1981 and for most of them as from 1977, can be broken down by country of origin, country of study or country of assignment for all the persons involved. The computerized Technical Co-operation Management System contains personal data on well over 25,000 individuals who have participated in Agency technical co-operation activities in one capacity or another.

81. The changes that have occurred since 1981 in the degree of participation of women in the technical co-operation programme are seen in the following table.

	1981			1986		
	Total	Of which women	Per cent women	Total	Of which women	Per cent women
Fellows	570	97	17.0	734	159	21.7
Visiting scientists	65	7	10.8	203	28	13.8
Training course participants	519	64	12.3	970	157	16.2
Project counterparts	511	46	9.0	963	89	9.2
International experts	319	7	2.2	870	37	4.3
National experts	12	0	0.0	40	6	15.0
Lecturers	119	2	1.7	228	14	6.1

82. Although the percentage of women in each category is still modest, increases in absolute numbers and in percentages have taken place in all categories. Moreover, the number of women counterparts - that is, scientists working on Agency-assisted projects in developing Member States - rose from 46 in 1981 to 89 in 1986.[1]

83. These figures compare well with those for the United Nations system as a whole, as far as these are available, despite the highly specialized nature of the fields in which the Agency is involved. For example, 11.6% of the trainees (fellows and training course participants) from Asia and the Pacific region financed by UNDP and placed by *all* United Nations agencies in 1986 were women; the figure for the Agency alone was 23.3%, more than twice as high.

84. In order that the Agency's record may be further improved, the Secretariat will, when inviting governments to submit nominations for fellowships and training courses, continue to stress that special consideration should be given to qualified women candidates.

D. Programme Outlook and Reporting

85. The year 1986 represents a peak year so far for the Agency in the delivery of technical co-operation inputs. When the rapid growth that characterized programme delivery during the past few years levelled off in 1985, measures were introduced to improve implementation notwithstanding existing staff constraints and a growing programme.

86. The results of these measures are reflected in the 1986 figures. Whereas the increase in disbursements was most pronounced for the TACF (28.7%), the following table indicates that in 1986 the annual rate of increase in the total volume of technical assistance delivered from all sources had once again reached healthy levels after the slump in 1985.

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1) In the Agency's Secretariat, however, there was only one woman among the 134 technical officers responsible for technical co-operation projects in 1981 and only one woman among the 130 technical officers in 1986.

Year	Total disbursements ($)	Annual increase (%)
1980	18,834,300	17.8
1981	20,960,300	11.3
1982	23,005,700	9.8
1983	26,615,400	15.7
1984	32,581,500	22.4
1985	33,715,900	3.5
1986	39,980,300	18.6
Percentage increase 1980-1986		112.3

87. The 112.3% increase in the value of the programme delivered between 1980 and 1986 was achieved with an increase in staff in the Department of Technical Co-operation of 12.2% and with an increase in Regular Budget expenditures for this Department of 38.7%. As a result, direct administrative costs as a percentage of the value of the technical assistance delivered dropped in 1986 to 12.5%. These overhead costs are well below those of many other multi- and bilateral technical co-operation organizations.

88. While there is still room for improvement in the net expenditure of extrabudgetary resources, it is not likely that the overall net expenditure rate will show further significant increases in future.

89. For the mainstay of the programme, the TACF, increased implementation has not only led to a dwindling of the unobligated balance but has begun to raise the question of liquidity, since the estimated resources on which the approved programme is based are not fully available at the beginning of the year and may also fall short of expectations.

90. As a result of this concern, allocations of TACF resources for 1987 were set at a level below that of the approved programme. In the same manner that, as intended, overprogramming has led to higher resource utilization, these lower ceilings will, in all likelihood, result in a somewhat lower net expenditure rate. Although the Secretariat will continue its efforts to maintain net expenditure at a satisfactory rate, major emphasis will be placed on project quality.

91. Following the Policy Review Seminar held during the 30th session of the General Conference, consultations continue with Member States concerning various aspects of technical co-operation. The insights obtained in this process will help to shape the future orientation of technical co-operation activities.

92. The introduction of the pre-project assistance facility, a greater number of multi-year projects, coupled with the envisaged two-year programming cycle as from 1989, closer liaison with the UNDP field offices and the wealth of evaluation data now available together provide a basis upon which - with the indispensable co-operation of the

Member States involved - a programme can be built that is firmly rooted in the development priorities of these Member States and truly responsive to their needs.

93. It is first and foremost through the evaluation efforts of the Agency that this question is addressed in an in-depth manner. While feedback through mid-project and end-of-project evaluations is available to the Member States involved, the results of major thematic evaluations are distributed to all Member States. Evaluation findings and information contained in annual reports on the Agency's technical co-operation activities therefore complement one another.

94. It is recognized, however, that there is also a place for more systematic achievement reporting. A system has therefore been introduced for reviewing the accomplishments of each completed project. It is the intention of the Secretariat to provide the Technical Assistance and Co-operation Committee of the Board with an achievement report containing brief achievement summaries and information on the status of large-scale multi-year projects that became operational as from 1 January 1987.

IV. EXPLANATORY NOTES TO STATISTICAL FIGURES, TABLES AND ANNEXES

Figure 1A. Resources available for Agency technical co-operation programmes: 1980-1986

95. This figure shows all resources made available to the Agency for technical co-operation activities from all funds for the programme years 1980-86.

96. Amounts given in Figure 1A for UNDP resources correspond to total claims against UNDP resources for projects implemented during each calendar year. These amounts are also used in the Agency's Accounts, reflecting UNDP's requirement to report expenditures as the sum of cash disbursements plus unliquidated obligations. UNDP funds for 1981-86 include resources made available by the UNDP-administered United Nations Financing System for Science and Technology for Development and, starting in 1984, those for projects for which the IAEA acts as associated agency.

97. Amounts shown as extrabudgetary funds refer to resources made available for activities planned for execution in the year shown. Adjustments to prior-year amounts can therefore take place in this category when major planned activities are cancelled. It should be noted that the amounts shown in Figure 1A do not include resources made available for future years.

Figure 1B. Disbursements by field of activity: 1986

98. This figure shows, by component and by major field of activity, the distribution of all assistance provided in 1986, irrespective of the source of funds.

Figure 1C. Disbursements by component: 1977-1986

99. The total assistance provided during the period 1977-1986 is broken down by year and type of input (training, experts and equipment), irrespective of the source of funds.

Figure 2A. Technical co-operation personnel services by field of activity: 1986

100. The number of assignments carried out by training course lecturers and experts are shown in the figure, along with the total man-months provided in each of the Agency's ten major fields of activity. Also included in the expert category are 34 assignments undertaken by administrative support staff.

Figure 2B. Technical co-operation personnel services by region: 1986

101. A graphic presentation is given of (i) the origin of technical co-operation field personnel (ii) their destination and (iii) the time spent in the field, grouped by geographic region.

Figure 3A. Distribution of equipment disbursements by field of activity: 1986

102. This figure shows the total amount of equipment provided in the ten major fields of activity.

Figure 3B. Distribution of equipment disbursements by region: 1986

103. Total disbursements for equipment, grouped by origin and recipient regions, are shown in this figure; individual recipient countries are shown in Table 7. "Local" includes customs, storage and internal transport charges in cases where these were not paid by recipient countries on equipment received. The list at the bottom of the page excludes countries in which the total purchase volume was less than $10,000.

Figure 4A. Distribution of trainees by field of activity: 1986

104. The number of training course participants and fellowship holders are shown in this figure, along with the total man-months of training provided in each of the Agency's major fields of activity.

Figure 4B. Summary data on training programmes: 1986

105. This graphic presentation shows where trainees studied, where they came from and how much training was received by their home regions. Information on the training provided to nationals of individual recipient countries is given in Tables 6B and 7.

Figure 5A. Distribution of disbursements by type and field of activity

106. In this figure, percentages (obtained by averaging over the past five years) are shown for equipment, expert services and training in the ten major fields of activity.

Figure 5B. Technical Assistance and Co-operation Fund disbursements by type of currency and region: 1986

107. This figure, which refers only to the Technical Assistance and Co-operation Fund, gives total 1986 disbursements broken down by region and for convertible and non-convertible currencies.

Figure 5C. Distribution of technical co-operation disbursements by field and region: 1986

108. The pie charts indicate the relative shares of each field per region, and the table below the figure gives actual amounts.

Figure 5D. Distribution of technical co-operation disbursements by source and region: 1986

109. In this graphic presentation, disbursements from the Technical Assistance and Co-operation Fund, extrabudgetary funds, assistance in kind and from UNDP funds are shown for each region, as are total disbursements from all funds by region.

Figure 6. Utilization of the Technical Assistance and Co-operation Fund

110. The bar chart shows, over a ten-year period, the total resources available to the Technical Assistance and Co-operation Fund year by year - each year including the unobligated and unspent funds of prior years - as well as the disbursements and obligations incurred against these resources as at 31 December of each year. Obligations incurred against future years for approved multi-year projects are shown separately, reflecting the status at the end of 1986.

111. The graph below it shows, in per cent, the unobligated balance, unliquidated obligations and disbursements for the same ten-year period.

Table 1. Available resources: 1977-1986

112. This table is directly related to Figure 1A, but shows resources over a ten-year period. The Technical Assistance and Co-operation Fund is broken down by its various components; other resources (extrabudgetary funds, assistance in kind and UNDP) are shown separately, along with their sub-total.

Table 2. Technical Assistance and Co-operation Fund: 1977-1986

113. The ten-year development of the target, of the amounts pledged and of the funds actually made available are shown (see Annex IV for contributions made by Member States to the Technical Assistance and Co-operation Fund for 1986). It should be noted that, in this table, voluntary contributions are shown not by the year in which they became available but for the programme year for which they are pledged. The graphic presentation following the table shows actual contributions to the Technical Assistance and Co-operation Fund from 1958 to 1986. For 1987, the actual target is shown. Indicative Planning Figures are given for 1988-89.

Table 3A. Project personnel by place of origin: 1986

114. This table shows the number of individuals, both international and national, who undertook technical co-operation assignments during 1986. Information on the number of assignments is also provided. It should be noted that IAEA staff, as well as

staff of other international organizations, are grouped under those headings and are not listed by nationality.

Table 3B. Trainees in the field by place of study: 1986

115. A breakdown is given for trainees (fellows, training course participants and visiting scientists) based on the place of study.

Table 4. Distribution of technical co-operation disbursements by type: 1982-1986

116. This financial table shows technical assistance disbursements from all funds during the last five years, broken down by programme component. It is the only table that shows (in column 10) the balance for assistance in kind. This balance represents the estimated value of man-months of training beyond the end of 1986 for fellows who had already started their studies in 1986. "Miscellaneous" refers to disbursements in all components for telex charges, health insurance, copying fees and for other minor items or services.

Table 5. Extrabudgetary funds for technical co-operation activities by donor as at 31 December 1986

117. This table shows the status of all extrabudgetary funds, including the monies received, their utilization and the balance remaining for further implementation for each donor fund.

Table 6A. Technical co-operation personnel services: 1986

118. A list is given of recipient countries showing the number of assignments undertaken and man-months provided to each country. Persons not serving on country projects are shown under intercountry projects and training courses.

Table 6B. Recipients of training abroad: 1986

119. The list shows, by recipient country, the number of trainees and the total man-months of training received in 1986.

Table 7. Financial summary: 1986

120. This major table shows, by type of assistance and by source, the total technical assistance furnished to each recipient country as well as to intercountry projects and training courses.

Table 8. Financial summary: 1958-1986

121. A summary is given of *all* assistance provided since the beginning of the Agency's technical co-operation activities, in 1958.

Annex I. Disbursement of extrabudgetary and in-kind contributions

122. Related to Table 5, this Annex shows, by donor and by type, the technical assistance disbursements made during 1986 utilizing extrabudgetary resources and, separately, contributions in kind. In many cases, the Agency must depend on donor countries for information about the value of in-kind inputs that have been provided.

Annex II. Training courses and study tours: 1986

123. All courses organized by the Agency in 1986 are listed along with the numbers of participants and the amounts obligated. This is the only table in which local participants and participants not financed from training course resources are shown.

Annex III. Reports submitted to recipient-country governments

124. Technical co-operation project reports produced in 1986 are listed by country, with an indication of their distribution status. Of the 292 reports prepared in 1986, 27 were issued as published documents and 265 as informal mission synopses.

Annex IV. Voluntary contributions pledged and paid to the Technical Assistance and Co-operation Fund for 1986

125. Data on voluntary contributions by Member States to the Technical Assistance and Co-operation Fund are given in this table. Figures reflect the status as at 31 December 1986.

Annex V. Cost-free fellowships offered and awarded: 1986

126. Information is made available in this table on the number of cost-free fellowships offered by Member States and the number of awards.

Annex VI. Projects under implementation for UNDP

127. This table includes two projects being implemented for the United Nations Financing System for Science and Technology for Development. Those projects for which the IAEA acts only as an associated agency are shown separately.

Annex VII. Projects completed or cancelled during 1986

128. Part A shows projects completed during the year, along with the years of approval and the assistance provided. Part B shows cancelled projects.

Annex VIII. Footnote-a/ projects made operational or extended during 1986

129. These projects are shown with the source of the funds that made upgrading to operational status or extension possible.

Annex IX. Approvals against the Reserve Fund in 1986

130. Information is provided on Reserve Fund approvals for new and existing projects.

Annex X. Changes to approved projects

131. The Secretariat is obliged to furnish information on changes to approved projects under the provisions of the Revised Guiding Principles. While projects may undergo more than one change in the course of a year, the list shows only net changes. For projects rephased, upgraded or made operational from the Reserve Fund, the existing approval is not given as of 1 January but as of the date such action took place, as shown in a separate column.

Annex XI. Projects rephased during 1986

132. As a result of dynamic programming, which was approved as part of the Board's 1983 policy review, it is possible for the Secretariat to reallocate to future years project funds originally intended for use in the current year. This mechanism, known as "rephasing", may be invoked in cases where project requirements differ from those originally foreseen so as to keep project plans realistic. The funds released as a result of rephasing are used to reduce overprogramming, as additional inputs to other projects and for the upgrading or extension of footnote-a/ projects. The Annex shows only net changes to projects rephased in 1986.

EXPENDITURE SUMMARY I

ALL FUNDS*

Description	Adjusted programme ($)	Net expenditure ($)	Net expenditure rate (%)	Earmarkings ($)
		A. CURRENT YEAR		
PROJECT AND NON-PROJECT				
Project	43,972,374	27,629,457	62.8	16,342,917
Non-project	8,401,505	7,767,668	92.5	633,837
Total	**52,373,879**	**35,397,125**	**67.6**	**16,976,754**
PROJECT FUNDS BY AREA				
Africa	9,460,475	5,383,702	56.9	4,076,773
Asia & Pacific	12,600,221	7,209,325	57.2	5,390,896
Latin America	11,406,175	7,721,243	67.7	3,684,932
Middle East & Europe	8,351,274	5,648,500	67.6	2,702,774
Interregional	2,154,229	1,666,687	77.4	487,542
Total	**43,972,374**	**27,629,457**	**62.8**	**16,342,917**
TOTAL FUNDS BY COMPONENT				
Experts	13,200,505	7,275,711	55.1	5,924,794
Equipment	26,722,492	18,142,653	67.9	8,579,839
Fellowships	6,378,230	4,997,035	78.3	1,381,195
Training courses	4,569,962	4,270,999	93.5	298,963
Sub-contracts	1,229,604	506,740	41.2	722,864
Direct costs	50,018	40,056	80.1	9,962
Miscellaneous	223,068	163,931	73.5	59,137
Total	**52,373,879**	**35,397,125**	**67.6**	**16,976,754**
TOTAL FUNDS BY FUND TYPE				
TACF	37,020,799	28,015,778	75.7	9,005,021
UNDP	4,157,676	3,480,543	83.7	677,133
Extrabudgetary	10,372,758	3,335,280	32.2	7,037,478
Funds in trust	822,646	565,524	68.7	257,122
Total	**52,373,879**	**35,397,125**	**67.6**	**16,976,754**
		B. CURRENT AND FUTURE YEARS		
Current	52,373,879	35,397,125	67.6	16,976,754
Future	27,965,820	3,435,981	12.3	24,529,839
Total	**80,339,699**	**38,833,106**	**-**	**41,506,593**

* As at 31 December 1986.

EXPENDITURE SUMMARY II

TECHNICAL ASSISTANCE AND CO-OPERATION FUND*

Description	Adjusted programme ($)	Net expenditure ($)	Net expenditure rate (%)	Earmarkings ($)
		A. CURRENT YEAR		
PROJECT AND NON-PROJECT				
Project	29,010,701	20,546,464	70.8	8,464,237
Non-Project	8,010,098	7,469,314	93.2	540,784
Total	**37,020,799**	**28,015,778**	**75.7**	**9,005,021**
TACF PROJECTS BY AREA				
Africa	6,095,844	4,438,908	72.8	1,656,936
Asia & Pacific	7,769,633	4,833,225	62.2	2,936,408
Latin America	7,423,506	5,355,956	72.1	2,067,550
Middle East & Europe	6,157,831	4,630,120	75.2	1,527,711
Interregional	1,563,887	1,288,255	82.4	275,632
Total	**29,010,701**	**20,546,464**	**70.8**	**8,464,237**
TOTAL TACF BY COMPONENT				
Experts	8,852,975	5,345,958	60.4	3,507,017
Equipment	18,183,572	13,837,913	76.1	4,345,659
Fellowships	5,470,433	4,684,953	85.6	785,480
Training courses	3,892,507	3,625,388	93.1	267,119
Sub-contracts	430,697	375,561	87.2	55,136
Miscellaneous	190,615	146,005	76.6	44,610
Total	**37,020,799**	**28,015,778**	**75.7**	**9,005,021**
TOTAL TACF BY CURRENCY TYPE				
Convertible	31,974,667	24,483,981	76.6	7,490,686
Non-convertible	5,046,132	3,531,797	70.0	1,514,335
Total	**37,020,799**	**28,015,778**	**75.7**	**9,005,021**
		B. CURRENT AND FUTURE YEARS		
Current	37,020,799	28,015,778	75.7	9,005,021
Future	27,953,240	3,433,173	12.3	24,520,067
Total	**64,974,039**	**31,448,951**	**-**	**33,525,088**

* As at 31 December 1986.

EXPENDITURE SUMMARY III

ALL FUNDS BY DEPARTMENT AND DIVISION*

Description	Adjusted programme ($)	Net expenditure (current year) ($)	Expenditure rate (%)	Earmarkings ($)
A. CURRENT-YEAR PROGRAMME				
Department of Research and Isotopes				
Joint FAO/IAEA Division	9,138,818	5,217,281	57.1	3,921,537
Division of Life Sciences	6,024,326	4,015,316	66.7	2,009,010
Division of Physical & Chemical Sciences	14,615,584	9,198,570	62.9	5,417,014
The Agency's Laboratories	1,848,158	1,271,714	68.8	576,444
Sub-Total	**31,626,886**	**19,702,881**	**62.3**	**11,924,005**
Department of Nuclear Energy and Safety				
Division of Nuclear Safety	5,759,162	3,761,326	65.3	1,997,836
Division of Nuclear Power	2,575,312	1,502,376	58.3	1,072,936
Division of Scientific & Technical Information	185,491	149,595	80.6	35,896
Division of Nuclear Fuel Cycle	3,176,539	2,175,150	68.5	1,001,389
Sub-Total	**11,696,504**	**7,588,447**	**64.9**	**4,108,057**
Department of Administration				
Legal Division	30,769	16,764	54.5	14,005
Sub-Total	**30,769**	**16,764**	**54.5**	**14,005**
Department of Safeguards				
Division of Information Treatment	7,682	322	4.2	7,360
Division of Standardization, Training & Admin. Support	57,500	-	0.0	57,500
Sub-Total	**65,182**	**322**	**0.5**	**64,860**
Department of Technical Co-operation				
Division of Technical Assistance & Co-operation	553,033	321,043	58.1	231,990
Sub-Total	**553,033**	**321,043**	**58.1**	**231,990**
TOTAL	**43,972,374**	**27,629,457**	**62.8**	**16,342,917**

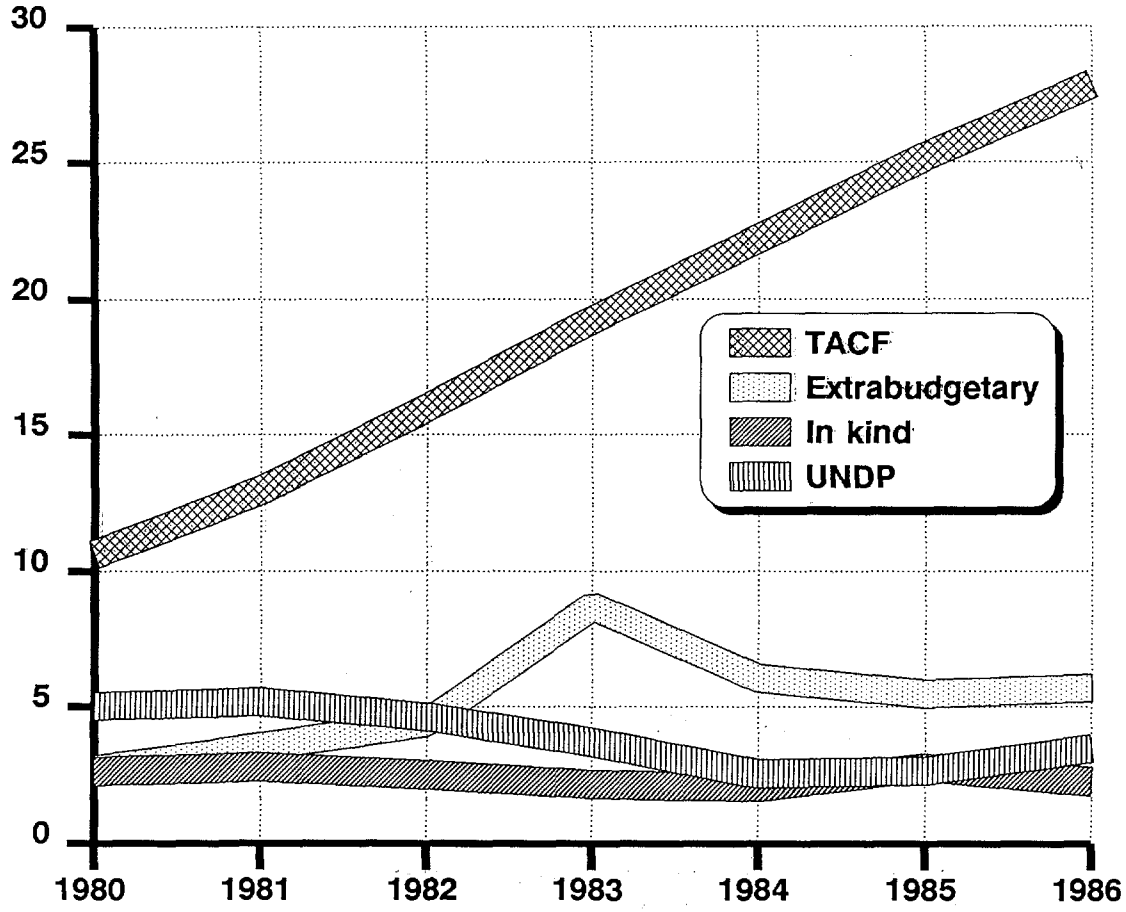
Description	Adjusted programme ($)	Net expenditure (current year) ($)	Expenditure rate (%)	Earmarkings ($)
	B. FUTURE-YEAR PROGRAMME			
Department of Research and Isotopes				
Joint FAO/IAEA Division	3,758,770	480,641	12.8	3,278,129
Division of Life Sciences	2,999,353	143,983	4.8	2,855,370
Division of Physical and Chemical Sciences	8,235,417	2,389,762	29.0	5,845,655
The Agency's Laboratories	630,376	14,201	2.3	616,175
Sub-Total	**15,623,916**	**3,028,587**	**19.4**	**12,595,329**
Department of Nuclear Energy and Safety				
Division of Nuclear Safety	4,766,820	228,567	4.8	4,538,253
Division of Nuclear Power	1,028,767	3,317	0.3	1,025,450
Division of Scientific and Technical Information	37,500	-	0.0	37,500
Division of Nuclear Fuel Cycle	2,786,687	35,295	1.3	2,751,392
Sub-Total	**8,619,774**	**267,179**	**3.1**	**8,352,595**
Department of Administration				
Legal Division	25,050	-	0.0	25,050
Sub-Total	**25,050**	**-**	**0.0**	**25,050**
Department of Technical Co-operation				
Division of Technical Assistance & Co-operation	219,500	-	0.0	219500
Sub-Total	**219,500**	**-**	**0.0**	**219,500**
TOTAL	**24,488,240**	**3,295,766**	**13.5**	**21,192,474**
GRAND TOTAL	**68,460,614**	**30,925,223**	**45.2**	**37,535,391**

* As at 31 December 1986.

FIGURE 1A

RESOURCES AVAILABLE FOR AGENCY TECHNICAL CO-OPERATION PROGRAMMES

(in millions of dollars)

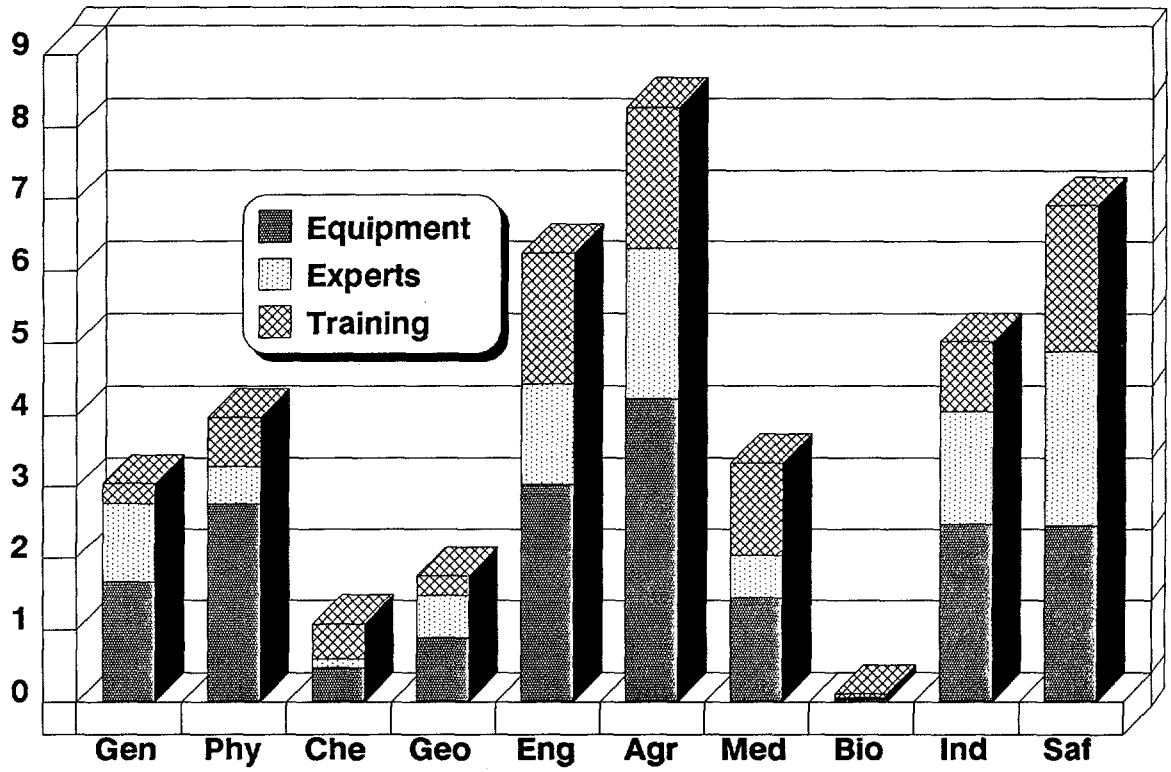


TACF	10,632	12,956	16,003	19,241	22,232	25,197	27,860
Extra-budgetary funds	2,669	3,520	4,413	8,715	6,062	5,484	5,716
Assistance in kind	2,628	2,788	2,493	2,172	2,066	2,765	2,282
UNDP	5,018	5,186	4,631	3,706	2,541	2,654	3,480
TOTAL	20,947	24,450	27,540	33,834	32,901	36,100	39,338

FIGURE 1B

DISBURSEMENTS BY FIELD OF ACTIVITY: 1986

(in millions of dollars)



Gen	=	General atomic energy development
Phy	=	Nuclear physics
Che	=	Nuclear chemistry
Geo	=	Prospecting, mining and processing of nuclear materials
Eng	=	Nuclear engineering and technology
Agr	=	Application of isotopes and radiation in agriculture
Med	=	Application of isotopes and radiation in medicine
Bio	=	Application of isotopes and radiation in biology
Ind	=	Application of isotopes and radiation in industry and hydrology
Saf	=	Safety in nuclear energy

FIGURE 1C

DISBURSEMENTS BY COMPONENT: 1977-1986

(in millions of dollars)

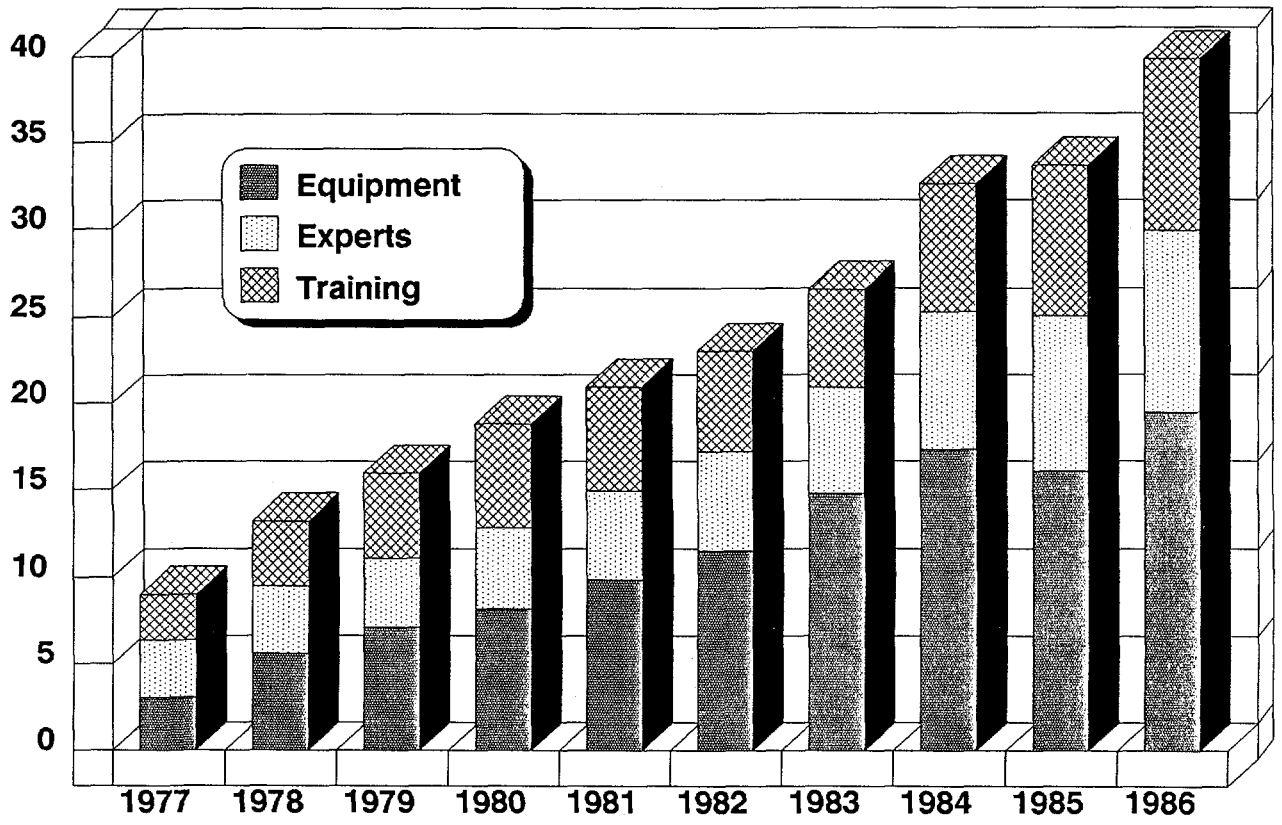
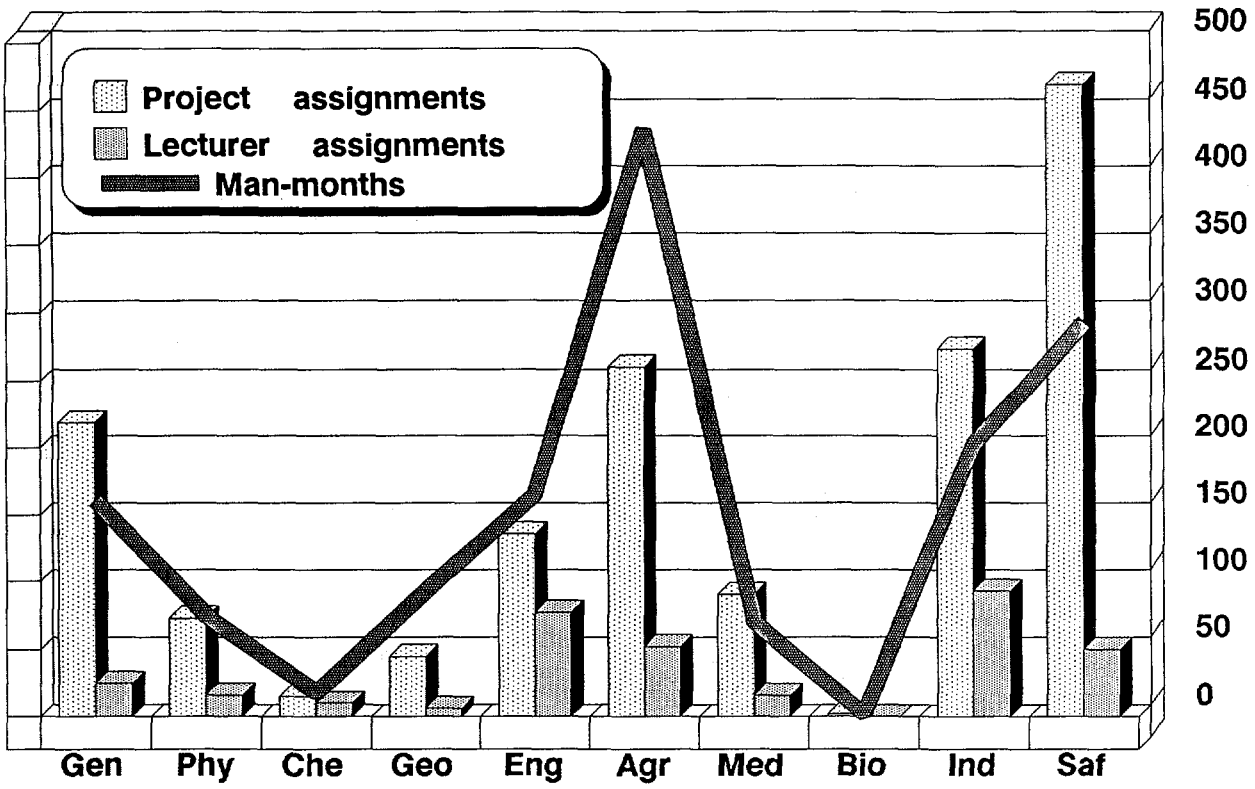


FIGURE 2A

TECHNICAL CO-OPERATION

PERSONNEL SERVICES BY FIELD OF ACTIVITY: 1986



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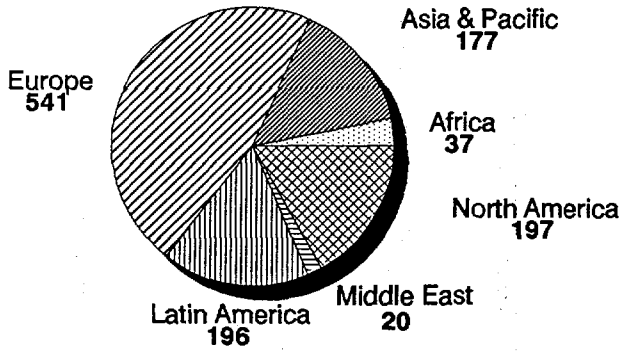
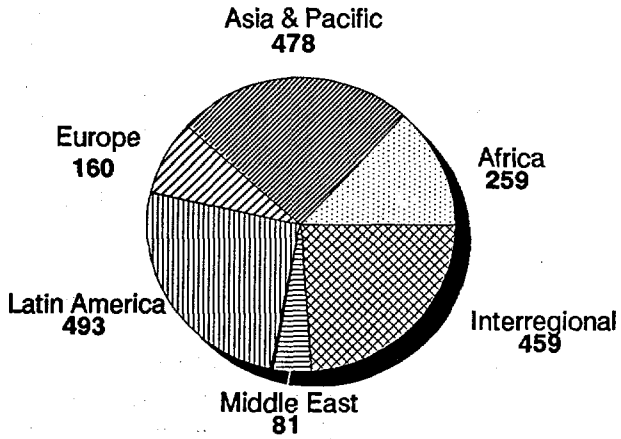
Saf	=	Safety in nuclear energy

FIGURE 2B
TECHNICAL CO-OPERATION
PERSONNEL SERVICES BY REGION: 1986

Where they came from: 1168 persons



Where they went: 1930 assignments



For how long: 1516 man-months

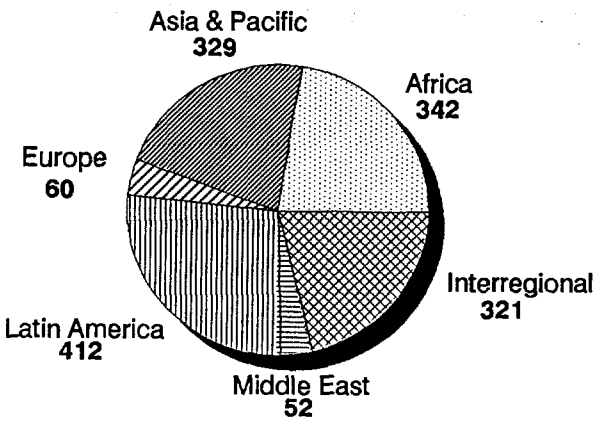
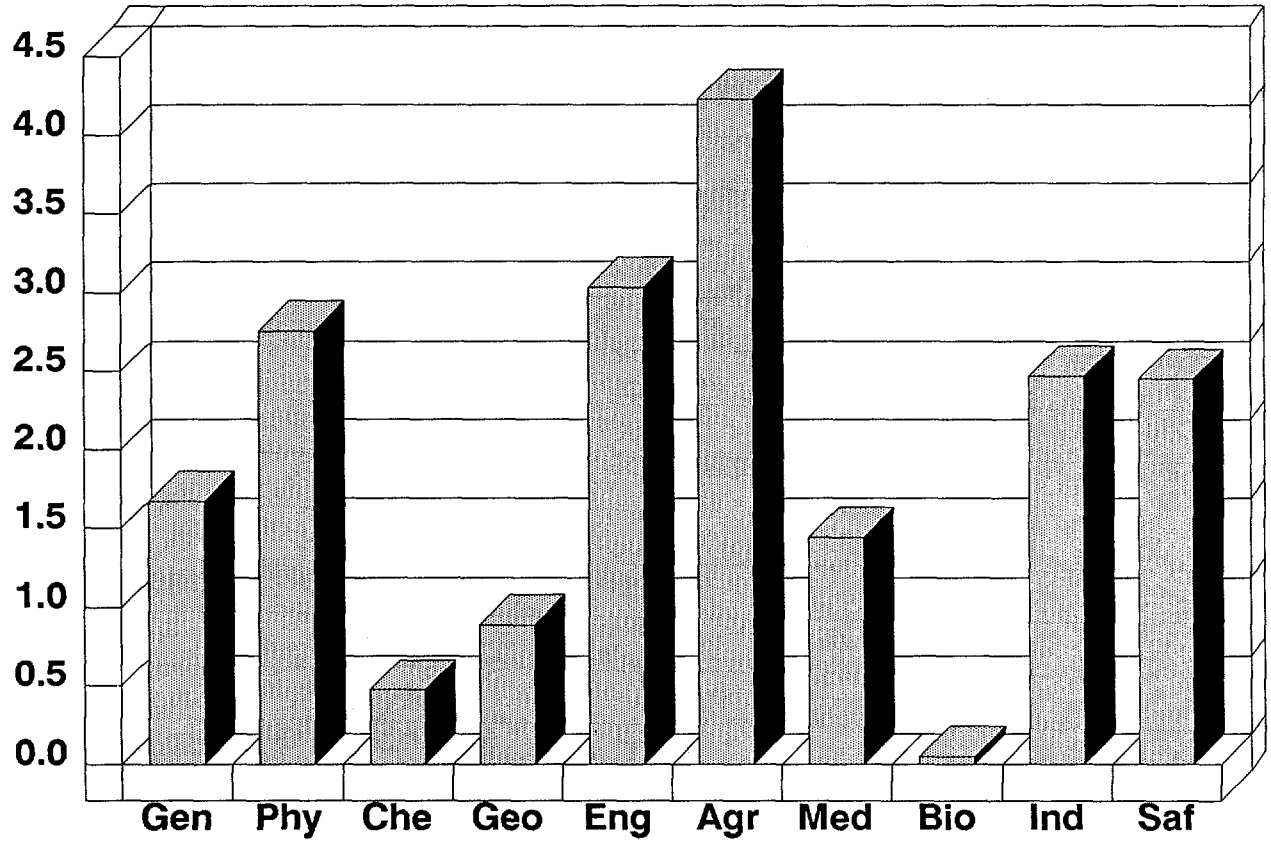


FIGURE 3A

DISTRIBUTION OF EQUIPMENT DISBURSEMENTS BY FIELD OF ACTIVITY: 1986

(in millions of dollars)



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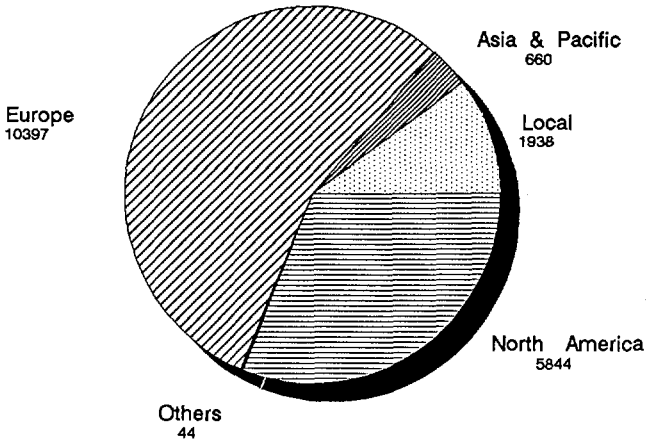
Ind	=	Application of isotopes and radiation in industry and hydrology
Saf	=	Safety in nuclear energy

FIGURE 3B

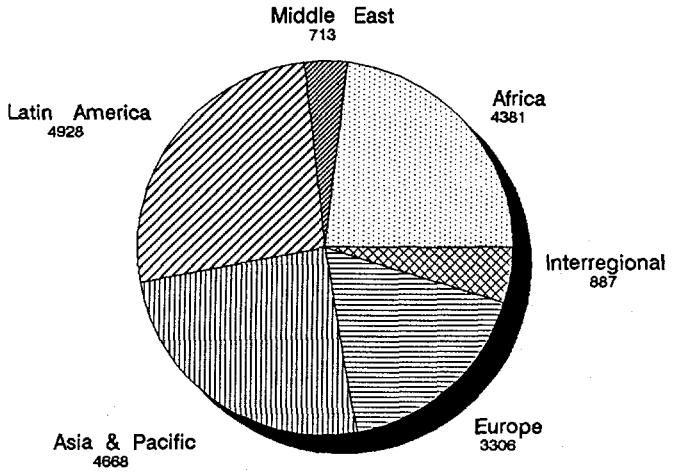
DISTRIBUTION OF EQUIPMENT DISBURSEMENTS

BY REGION: 1986
(in thousands of dollars)

Where it came from: $18,883 purchased



Where it went: $18,883 delivered



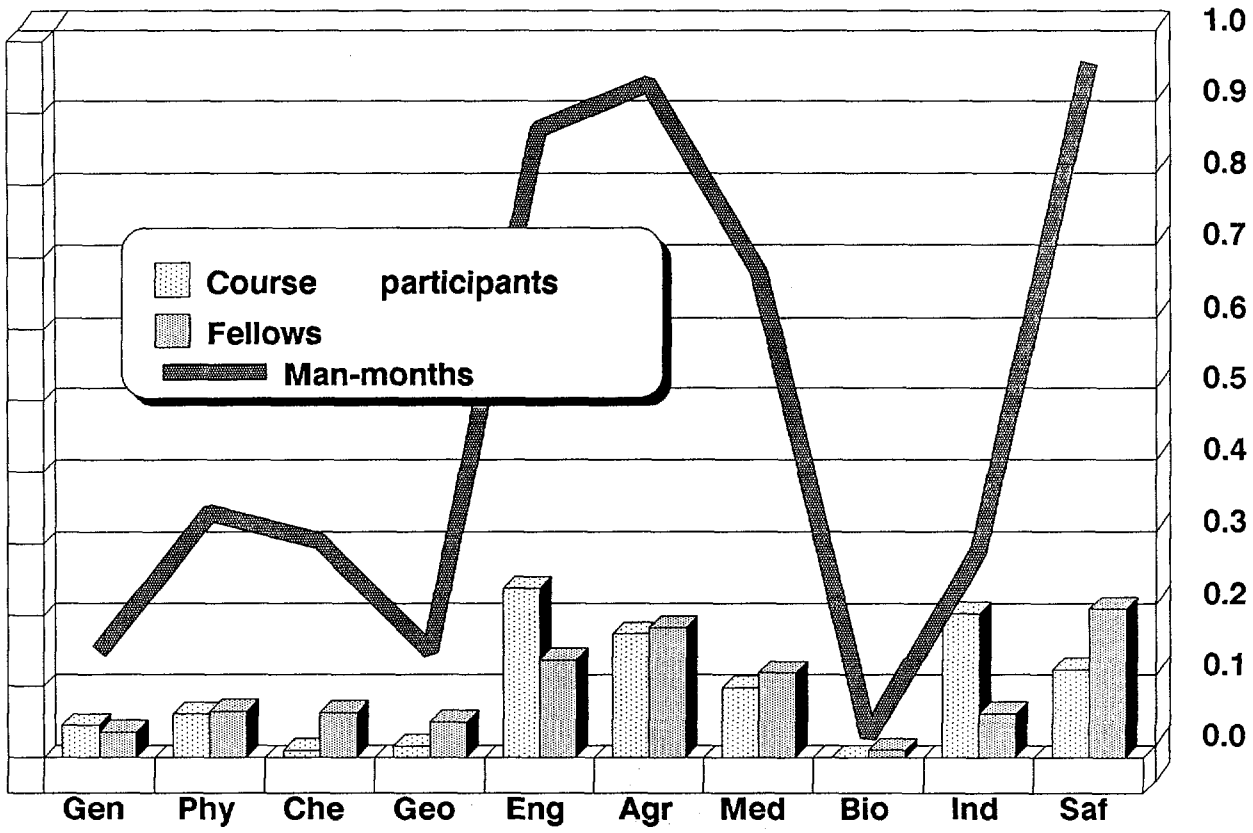
Where equipment was purchased:

Australia	15	Denmark	75	Italy	561
Austria	1,455	Finland	105	Japan	414
Belgium	90	France	689	Netherlands	87
Brazil	12	German D.R.	628	Poland	83
Bulgaria	15	Germany, F.R.	2,069	Sweden	85
Canada	310	Hong Kong	52	Switzerland	314
China	139	Hungary	138	United Kingdom	1,783
Cuba	25	Iceland	45	USA	5,534
Czechoslovakia	41	India	25	USSR	2,128

FIGURE 4A

DISTRIBUTION OF TRAINEES BY FIELD OF ACTIVITY: 1986

(in thousands)



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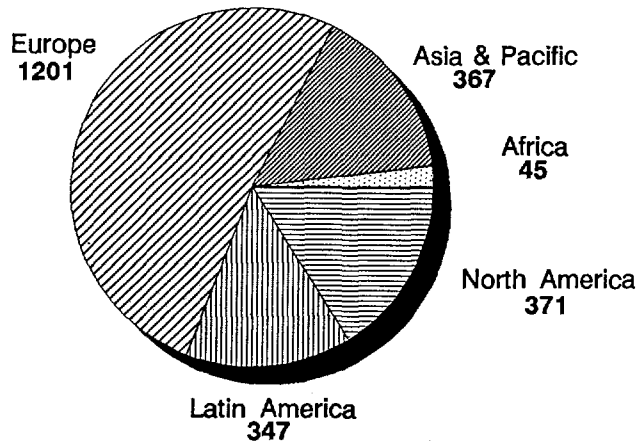
Ind	=	Application of isotopes and radiation in industry and hydrology
Saf	=	Safety in nuclear energy

FIGURE 4B

SUMMARY DATA ON TRAINING PROGRAMMES: 1986

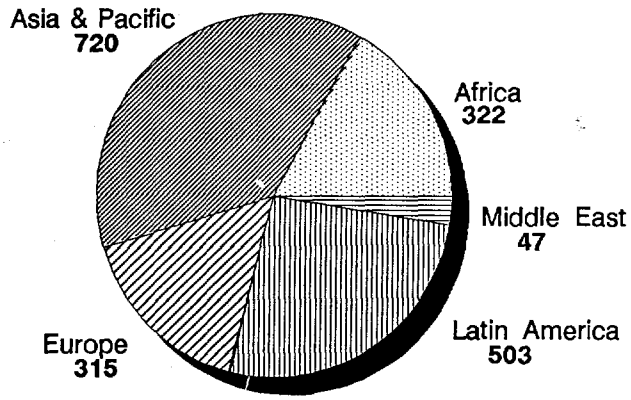
Where training was given:

2331 places of study



Where trainees came from:

1907 persons



Amount of training received:

4737 man-months

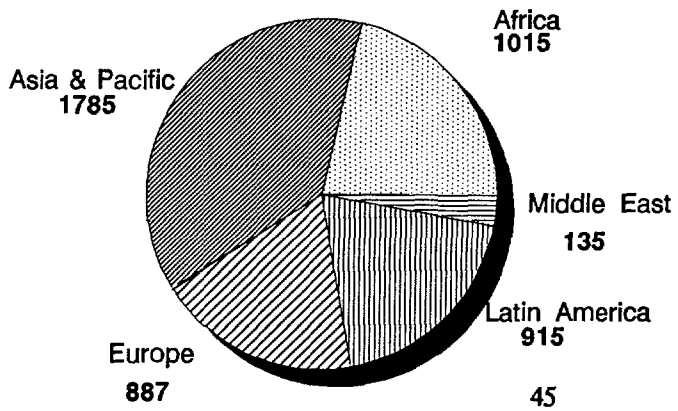
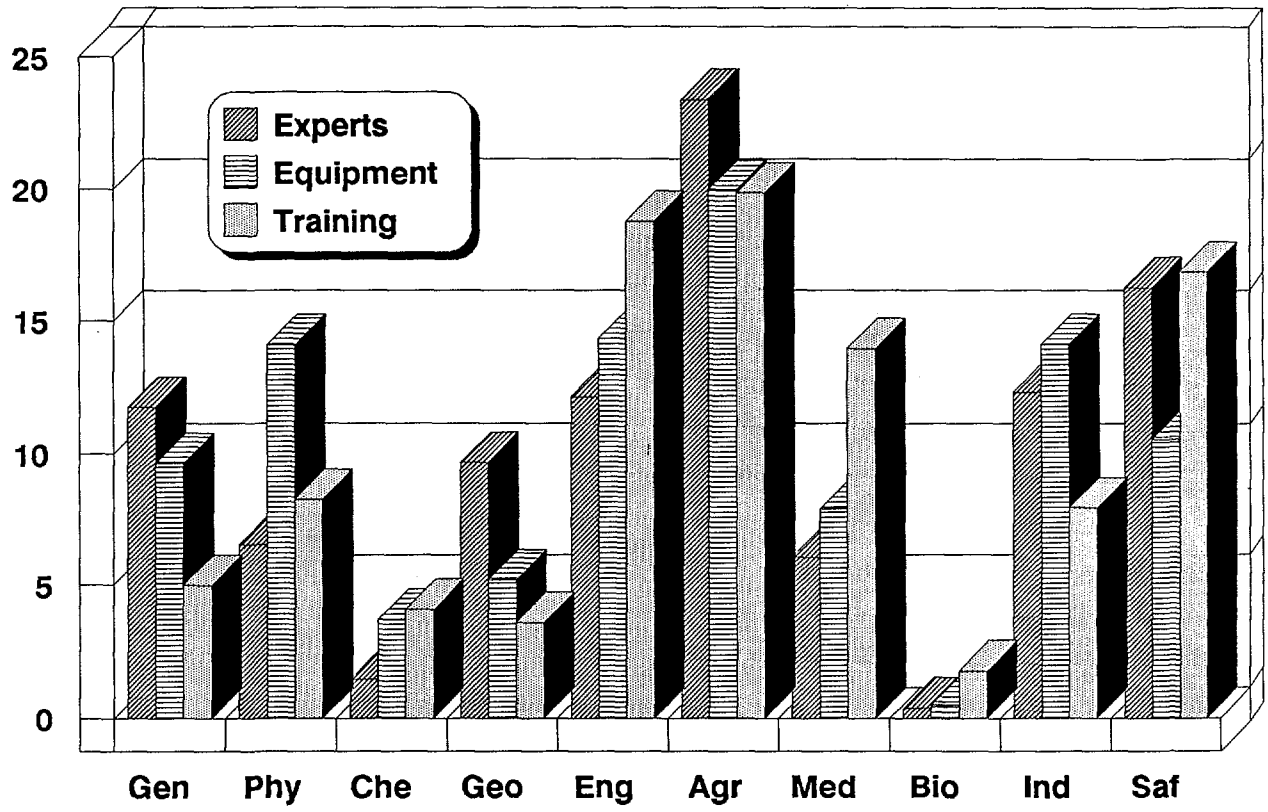


FIGURE 5A

DISTRIBUTION OF DISBURSEMENTS

BY TYPE AND FIELD OF ACTIVITY

(in per cent, averaged over the period 1982-1986)



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Saf	=	Safety in nuclear energy

FIGURE 5B

TECHNICAL ASSISTANCE AND CO-OPERATION FUND DISBURSEMENTS BY TYPE OF CURRENCY AND REGION: 1986

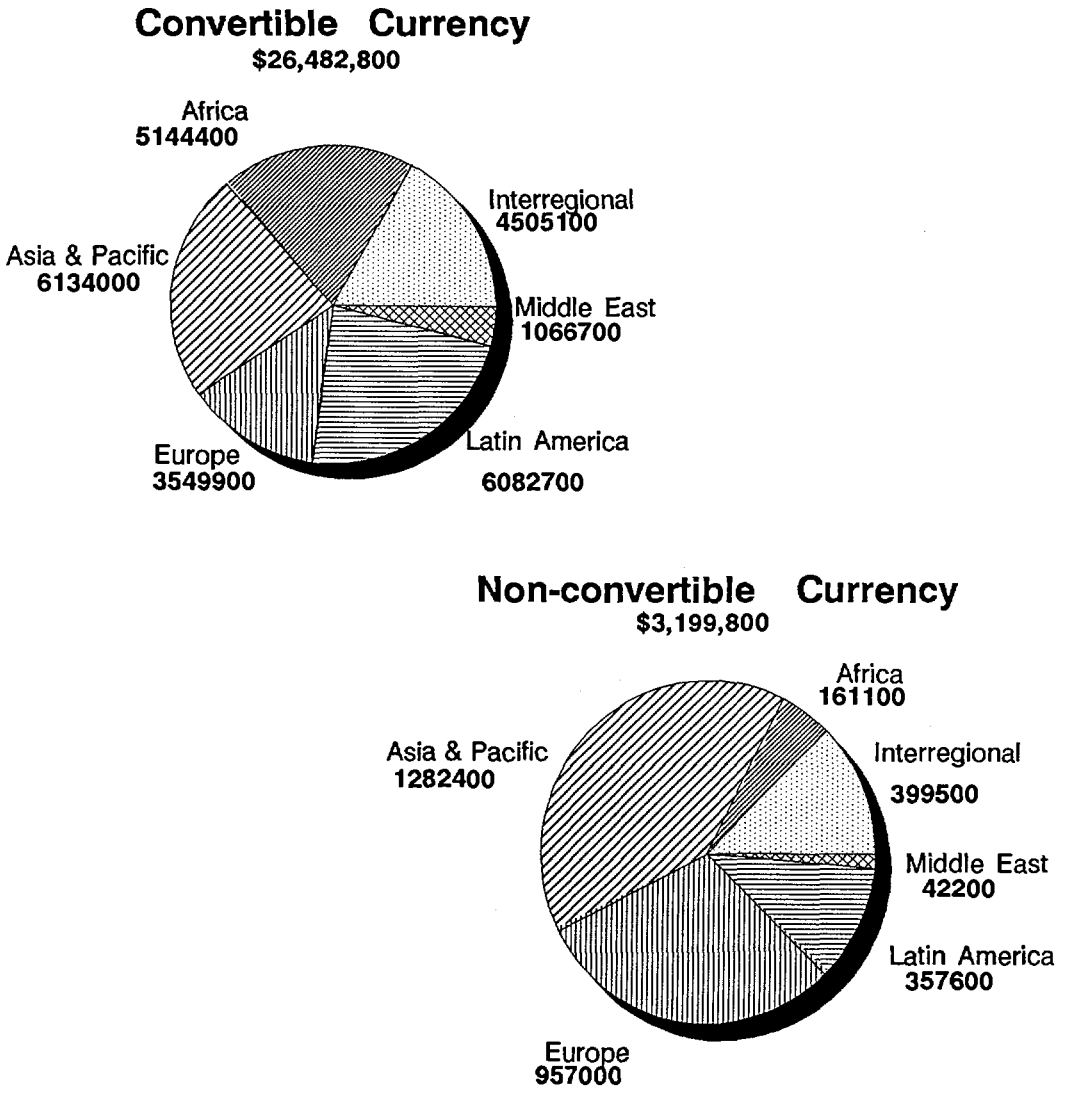
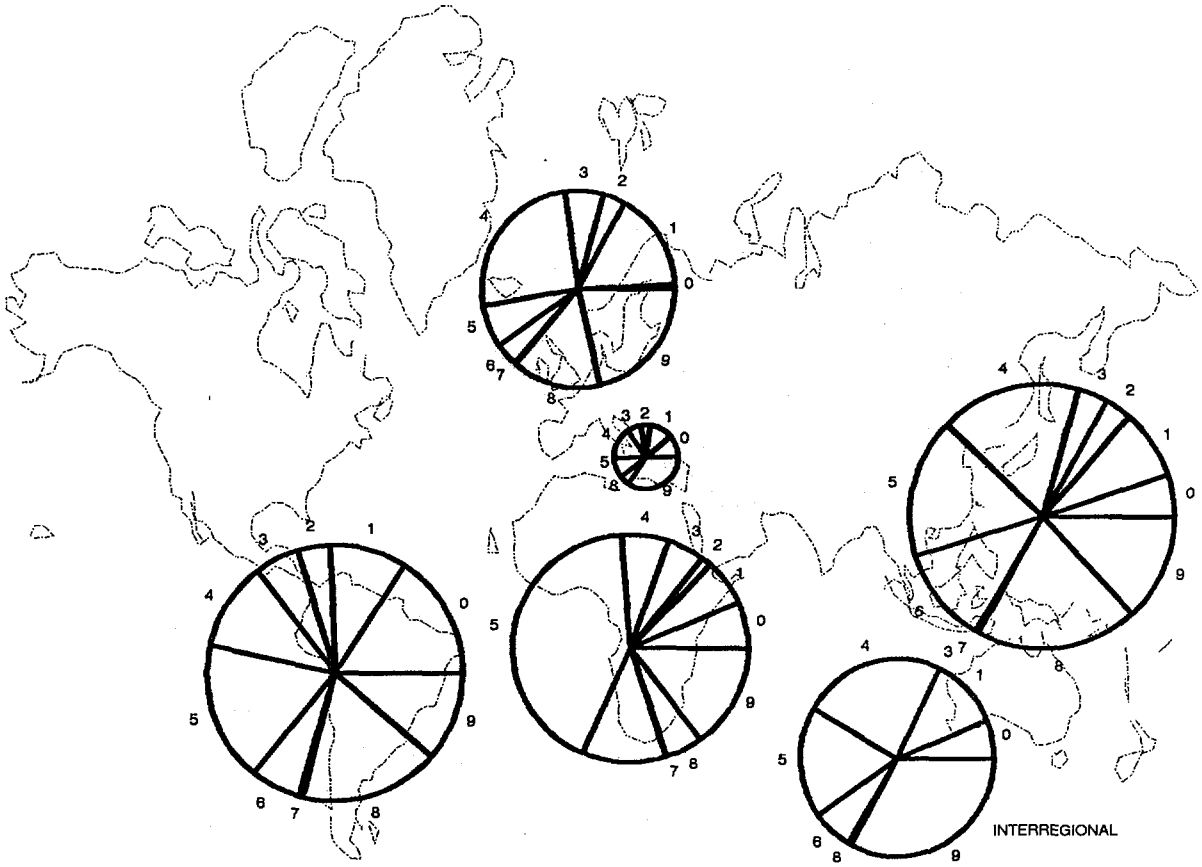


FIGURE 5C

DISTRIBUTION OF TECHNICAL CO-OPERATION DISBURSEMENTS BY FIELD AND REGION: 1986



Summary in thousands of dollars

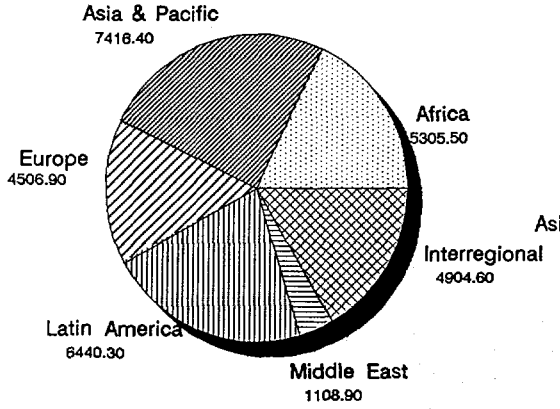
Field of activity	Africa $	Asia & Pacific $	Europe $	Latin America $	Middle East $	Inter-regional $	All regions $
0 - General atomic energy development	525.7	564.3	44.4	1,428.7	140.4	353.7	3,057.2
1 - Nuclear physics	521.5	906.6	881.0	879.7	143.2	641.7	3,973.7
2 - Nuclear chemistry	115.0	345.6	204.8	368.3	58.4	0.0	1,092.1
3 - Prospecting, mining and processing of nuclear materials	406.5	392.2	349.4	512.9	90.4	0.2	1,751.6
4 - Nuclear engineering and technology	523.0	1,827.6	1,393.3	1,000.4	195.2	1,318.0	6,257.5
Application of isotopes and radiation in							
5 - Agriculture	3,360.8	1,833.8	378.8	1,578.8	124.4	1,016.1	8,292.7
6 - Medicine	917.6	1,260.5	213.0	572.3	0.0	379.2	3,342.6
7 - Biology	6.8	54.8	15.0	45.6	0.0	0.0	122.2
8 - Industry and hydrology	411.0	2,116.3	800.9	1,599.5	64.1	31.3	5,023.1
9 - Safety in nuclear energy	1,158.7	1,384.0	1,153.9	988.7	424.0	1,812.2	6,921.6
Sub-total	7,946.6	10,685.7	5,434.6	8,974.9	1,240.1	5,552.4	39,834.3
Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	146.0
GRAND TOTAL	7,946.6	10,685.7	5,434.6	8,974.9	1,240.1	5,552.4	39,980.3

FIGURE 5D

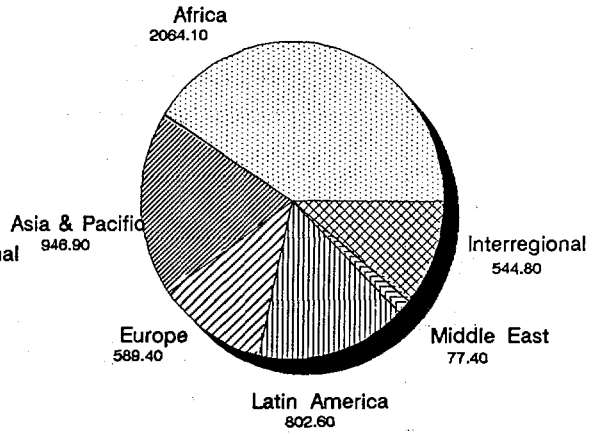
DISTRIBUTION OF TECHNICAL CO-OPERATION DISBURSEMENTS BY SOURCE AND REGION: 1986

(in thousands of dollars)

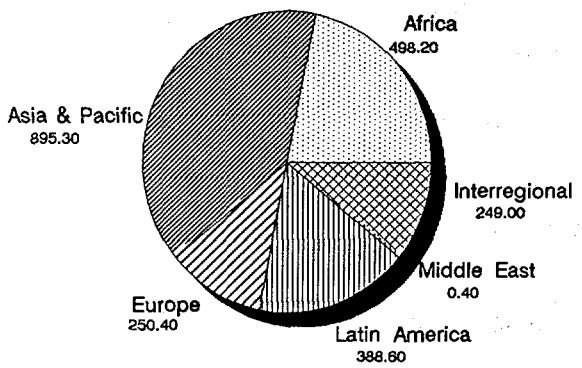
TACF



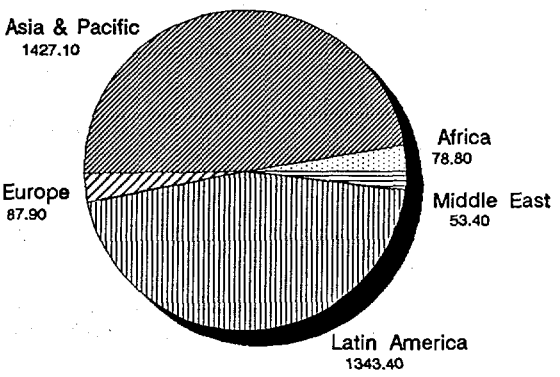
Extrabudgetary funds



Assistance in kind



UNDP funds



TOTAL 1986

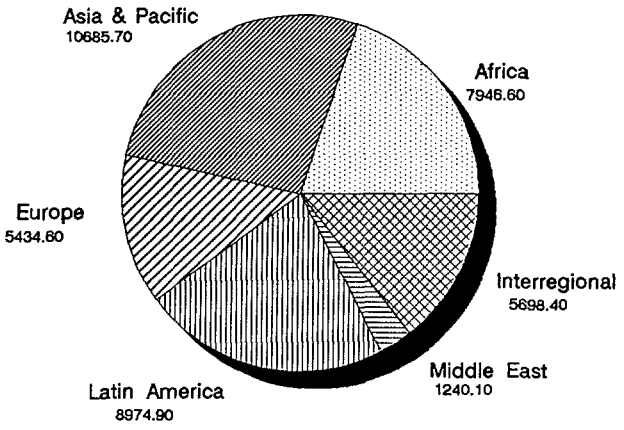


FIGURE 6

UTILIZATION OF THE TECHNICAL ASSISTANCE AND CO-OPERATION FUND

(status at year-end)

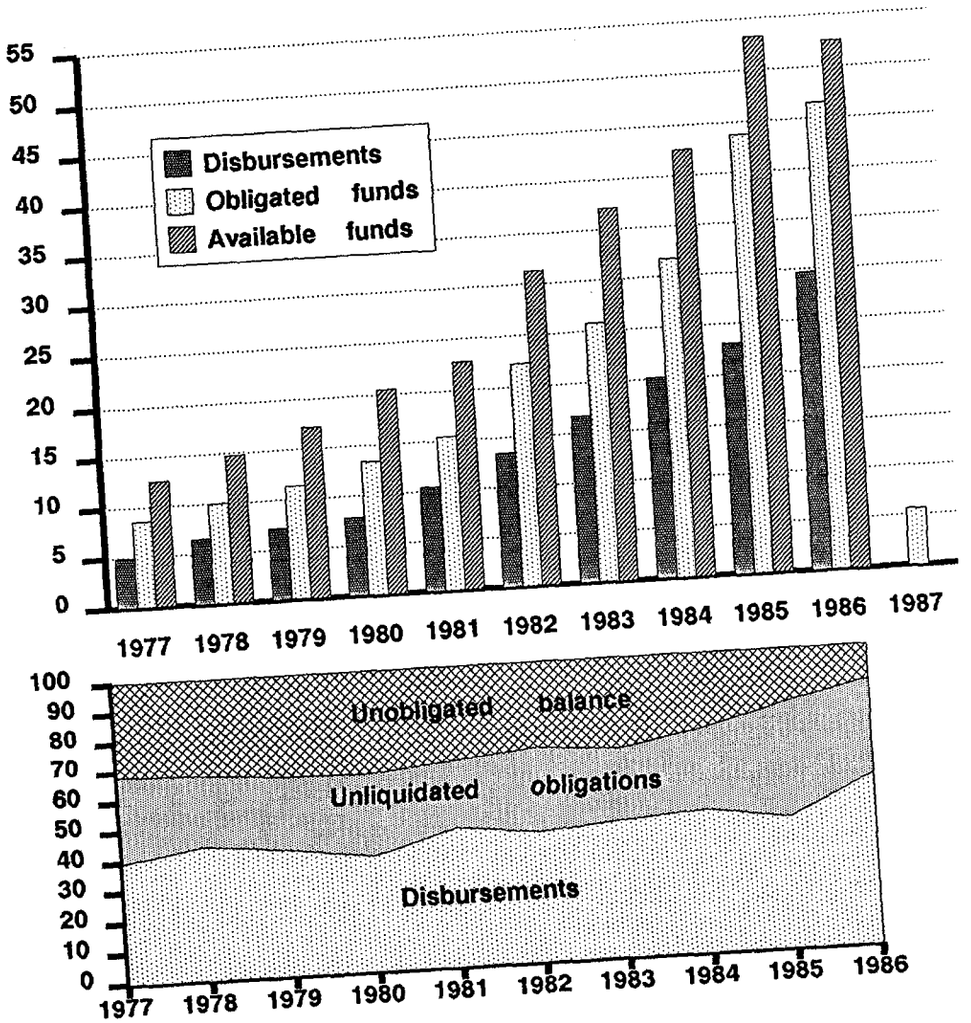


TABLE 1

AVAILABLE RESOURCES: 1977-1986

(in thousands of dollars)

Year	Technical Assistance and Co-operation Fund				Other resources				Grand total (1+5)
	Voluntary contributions		Miscellaneous income	Sub-total	Extrabudgetary funds	Assistance in kind	UNDP	Sub-total	
	Convertible currency (1a)	Non-convertible currency (1b)	(1c)	(1)	(2)	(3)	(4)	(5)	(6)
1977	4,307	1,142	513	5,962	2,147	1,284	2,836	6,267	12,229
1978	5,090	1,362	670	7,122	2,851	1,987	3,205	8,043	15,165
1979	6,448	1,614	740	8,802	2,635	2,015	6,066	10,716	19,518
1980	7,977	2,083	572	10,632	2,669	2,628	5,018	10,315	20,947
1981	9,873	2,181	902	12,956	3,520	2,788	5,186	11,494	24,450
1982	12,112	2,789	1,102	16,003	4,413	2,493	4,631	11,537	27,540
1983	14,169	3,447	1,625	19,241	8,715	2,172	3,706	14,593	33,834
1984	17,213	3,524	1,495	22,232	6,062	2,066	2,541	10,669	32,901
1985	19,282	3,976	1,939	25,197	5,484	2,765	2,654	10,903	36,100
1986	21,348	5,431	1,081	27,860	5,716	2,282	3,480	11,478	39,338
1977-1986	**117,819**	**27,549**	**10,639**	**156,007**	**44,212**	**22,480**	**39,323**	**106,015**	**262,022**

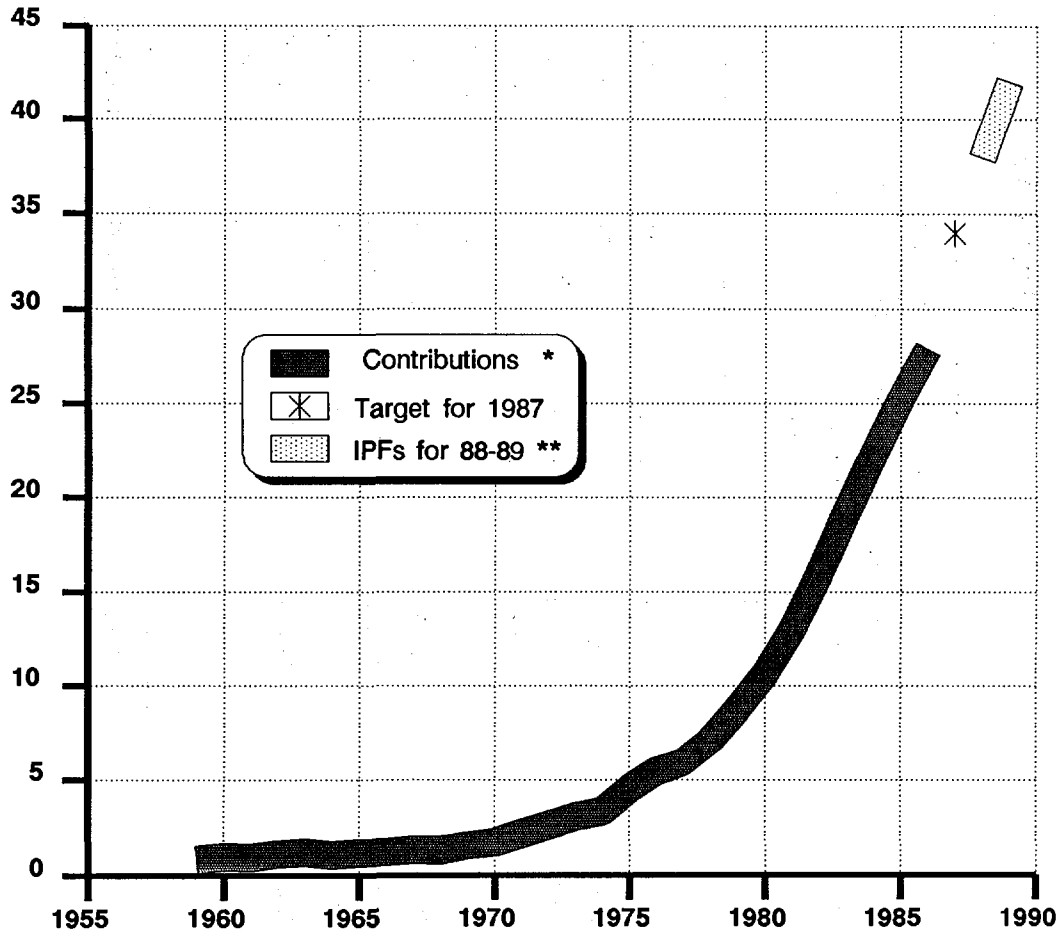
TABLE 2

TECHNICAL ASSISTANCE AND CO-OPERATION FUND: 1977-1986

Programme year	Target for voluntary contributions to the Technical Assistance and Co-operation Fund	Amount pledged	Amount actually made available for technical co-operation by programme year	Per cent of target
1977	6,000,000	5,449,466	5,962,688	99.4
1978	7,000,000	6,451,332	7,121,508	101.7
1979	8,500,000	8,062,513	8,802,221	103.6
1980	10,500,000	10,059,733	10,632,033	101.3
1981	13,000,000	12,054,910	12,956,894	99.7
1982	16,000,000	14,901,346	16,003,198	100.0
1983	19,000,000	17,621,272	19,246,803	101.3
1984	22,500,000	20,735,931	22,231,347	98.8
1985	26,000,000	23,311,501	25,250,382	97.1
1986	30,000,000	26,719,915	27,800,865	92.7

VOLUNTARY CONTRIBUTIONS

(in millions of dollars)



* including miscellaneous income. ** as accepted by the Board of Governors.

TABLE 3A

PROJECT PERSONNEL BY PLACE OF ORIGIN: 1986

Place of origin	Total individuals	Assignments				
		International experts	National experts	Lecturers	Other project personnel	Total
Algeria	1	1	-	-	-	1
Argentina	43	33	1	26	4	64
Australia	24	28	-	8	-	36
Austria	19	14	-	3	7	24
Bangladesh	6	5	-	1	-	6
Barbados	2	2	-	-	-	2
Belgium	21	12	-	9	-	21
Bolivia	6	3	3	-	-	6
Brazil	29	16	1	16	1	34
Bulgaria	15	24	-	1	-	25
Canada	35	22	-	19	1	42
Chile	10	7	-	4	-	11
China	6	7	-	-	-	7
Colombia	8	5	-	3	-	8
Costa Rica	4	3	-	1	2	6
Cuba	1	1	-	-	-	1
Czechoslovakia	7	7	-	1	-	8
Dominican Republic	2	2	-	-	-	2
Denmark	6	16	-	1	-	17
Ecuador	7	6	2	2	-	10
Egypt	16	9	5	1	2	17
El Salvador	1	-	1	-	-	1
Finland	5	4	-	1	-	5
France	56	54	-	15	-	69
German D.R.	5	4	-	2	-	6
Germany, F.R.	76	81	-	16	1	98
Greece	3	3	-	-	-	3
Guatemala	6	5	-	1	-	6
Guyana	2	2	-	-	-	2
Hungary	42	71	-	5	-	76
Iceland	1	3	-	1	-	4
India	26	27	-	7	3	37
Indonesia	7	7	1	-	1	9
Iran, I.R.	4	4	-	-	-	4
Iraq	7	3	5	-	1	9
Israel	2	2	-	-	-	2
Italy	23	38	-	3	-	41
Jamaica	3	4	-	-	-	4
Japan	34	28	-	12	-	40
Jordan	4	3	-	1	-	4
Kenya	41	1	-	-	-	1

Place of origin	Total individuals	Assignments				
		International experts	National experts	Lecturers	Other project personnel	Total
Korea, R.	5	6	-	1	-	7
Madagascar	1	-	1	-	-	1
Malaysia	12	11	4	-	-	15
Mauritania	1	-	-	-	1	1
Mexico	12	18	-	6	-	24
Morocco	4	3	-	1	-	4
Netherlands	10	20	-	5	-	25
New Zealand	1	1	-	1	-	2
Nigeria	2	-	1	1	-	2
Norway	3	3	-	-	-	3
Pakistan	7	7	-	-	-	7
Panama	1	1	-	-	-	1
Paraguay	4	4	-	-	-	4
Peru	19	7	5	3	8	23
Philippines	7	7	2	-	-	9
Poland	28	33	2	1	1	37
Portugal	2	1	-	1	-	2
Romania	1	1	-	-	-	1
Sierra Leone	1	2	-	-	-	2
Singapore	3	3	-	-	-	3
Spain	32	35	-	5	-	40
Sri Lanka	9	26	-	2	-	28
Sweden	16	10	-	6	-	16
Switzerland	7	22	-	4	-	26
Syrian A.R.	4	3	1	-	-	4
Taiwan	1	2	-	-	-	2
Thailand	8	8	-	1	1	10
Trinidad	2	2	-	-	-	2
Tunisia	1	1	-	-	-	1
Turkey	5	31	1	1	-	33
USSR	2	2	-	-	-	2
UK	56	74	-	23	-	97
USA	133	147	-	17	-	164
Uruguay	8	7	-	5	-	12
Venezuela	10	8	1	2	-	11
Viet Nam	1	1	-	-	-	1
Yemen	1	1	-	-	-	1
Yugoslavia	30	76	3	1	-	80
IAEA	134	356	-	93	-	449
Other international organizations	8	4	-	5	-	9
TOTAL	**1168**	**1511**	**40**	**345**	**34**	**1930**

TABLE 3B

TRAINEES IN THE FIELD BY PLACE OF STUDY: 1986

Place of study	Fellows	Training course participants	Visiting scientists	TOTAL
Argentina	16	35	4	55
Australia	18	15	3	36
Austria	11	-	6	17
Bangladesh	-	1	-	1
Belgium	18	-	6	24
Bolivia	-	-	4	4
Brazil	11	65	2	78
Canada	37	29	22	88
Chile	5	24	1	30
China	-	51	3	54
Colombia	2	18	-	20
Cote d'Ivoire	1	-	-	1
Costa Rica	4	-	1	5
Cuba	1	-	-	1
Czechoslovakia	9	25	3	37
Denmark	6	-	4	10
Ecuador	-	12	-	12
Egypt	1	14	1	16
Finland	5	-	15	20
France	48	101	22	171
German D.R.	6	25	7	38
Germany, F.R.	57	77	39	173
Greece	4	-	1	5
Guatemala	-	11	3	14
Hungary	20	38	10	68
India	11	66	1	78
Indonesia	5	8	1	14
Italy	18	-	22	40
Jamaica	-	23	-	23
Japan	12	46	1	59
Kenya	1	24	-	25
Korea, R.	-	1	2	3
Malaysia	1	30	1	32
Mexico	5	35	6	46
Netherlands	22	26	12	60
Nigeria	-	-	2	2
Norway	2	-	1	3
New Zealand	1	-	2	3
Paraguay	-	10	-	10
Peru	-	7	7	14
Philippines	1	27	1	29
Poland	13	-	1	14
Portugal	1	-	-	1
Puerto Rico	1	-	-	1
Singapore	5	-	-	5
Spain	7	-	9	16
Sri Lanka	-	13	-	13
Sweden	5	25	9	39
Switzerland	4	-	5	9
Thailand	-	39	1	40
UK	93	48	17	158
USSR	5	70	1	76
USA	166	83	34	283
Uruguay	8	-	-	8
Venezuela	-	26	-	26
Yugoslavia	10	21	4	35
Zimbabwe	-	-	1	1
IAEA	73	75	39	187
TOTAL	750	1224	337	2331

a) The difference between the number of trainees (1907) and the number of places of study (2331) is due to the fact that a number of fellows, training course participants and visiting scientists went to more than one country/place.

TABLE 4

DISTRIBUTION OF TECHNICAL CO-OPERATION DISBURSEMENTS BY TYPE: 1982-1986

Year and source	Experts (1)		Equipment (2)		Fellowships (3)		Scientific visits (4)		Training courses (5)		Sub-contracts (6)		Miscellaneous (7)		Total (8)		Assistance outstanding as at 31 December '86 Unliquidated obligations (9)	In-kind balance (10)	Total (8+9+10) (11)
	$	%	$	%	$	%	$	%	$	%	$	%	$	%	$	%	$	$	$
1982																			
UNDP funds	1,202.2	31.4	1,751.3	45.8	196.6	5.1	0.0	0.0	418.5	10.9	163.0	4.3	94.8	2.5	3,826.6	100.0	0.0	0.0	3,826.6
Agency funds	2,868.6	21.3	7,057.6	52.5	1,533.4	11.4	112.4	0.8	1,810.9	13.5	16.3	0.1	51.6	0.4	13,450.8	100.0	0.0	0.0	13,450.8
Extrabudgetary funds	532.0	16.4	1,988.9	61.5	177.6	5.5	6.4	0.2	335.1	10.4	195.3	6.1	0.0	0.0	3,235.3	100.0	0.0	0.0	3,235.3
Assistance in kind	95.1	3.8	20.0	0.8	2,110.8	84.7	0.0	0.0	267.1	10.7	0.0	0.0	0.0	0.0	2,493.0	100.0	0.0	0.0	2,493.0
TOTAL	4,697.9	20.4	10,817.8	47.0	4,018.6	17.5	118.8	0.5	2,831.6	12.3	374.6	1.6	146.4	0.7	23,005.7	100.0	0.0	0.0	23,005.7
1983																			
UNDP funds	882.3	20.6	1,785.4	41.7	217.2	5.1	0.0	0.0	136.8	3.2	1,167.2	27.2	95.3	2.2	4,284.2	100.0	0.0	0.0	4,284.2
Agency funds	3,186.9	19.0	9,438.4	56.4	2,139.7	12.8	149.9	0.9	1,693.5	10.1	62.7	0.4	65.0	0.4	16,736.1	100.0	0.0	0.0	16,736.1
Extrabudgetary funds	1,232.9	36.0	1,710.9	50.0	263.3	7.7	2.3	0.1	207.9	6.1	5.3	0.1	0.0	0.0	3,422.6	100.0	0.0	0.0	3,422.6
Assistance in kind	227.3	10.5	239.5	11.0	1,520.5	70.0	0.0	0.0	185.2	8.5	0.0	0.0	0.0	0.0	2,172.5	100.0	0.0	0.0	2,172.5
TOTAL	5,529.4	20.8	13,174.2	49.5	4,140.7	15.6	152.2	0.6	2,223.4	8.3	1,235.2	4.6	160.3	0.6	26,615.4	100.0	0.0	0.0	26,615.4
1984																			
UNDP funds	935.4	24.0	2,145.2	55.0	197.8	5.1	0.0	0.0	263.5	6.7	291.5	7.5	65.3	1.7	3,898.7	100.0	0.0	0.0	3,898.7
Agency funds	4,118.2	20.5	10,010.1	49.7	2,739.6	13.6	364.6	1.8	2,530.9	12.6	241.8	1.2	118.6	0.6	20,124.0	100.0	0.0	0.0	20,124.0
Extrabudgetary funds	1,538.3	23.7	3,802.5	58.6	243.4	3.7	6.0	0.1	209.9	3.2	692.6	10.7	0.0	0.0	6,492.7	100.0	0.0	0.0	6,492.7
Assistance in kind	285.4	13.8	53.0	2.6	1,491.1	72.2	0.0	0.0	236.6	11.4	0.0	0.0	0.0	0.0	2,066.1	100.0	0.0	0.0	2,066.1
TOTAL	6,877.3	21.1	16,010.8	49.1	4,671.9	14.3	370.6	1.1	3,240.9	10.0	1,225.9	3.8	184.1	0.6	32,581.5	100.0	0.0	0.0	32,581.5
1985																			
UNDP funds	877.2	34.2	1,101.9	43.0	141.2	5.5	91.1	3.6	218.3	8.5	99.9	3.9	32.9	1.3	2,562.5	100.0	0.0	0.0	2,562.5
Agency funds	5,032.7	21.8	10,448.2	45.3	3,153.9	13.7	448.1	1.9	3,447.2	15.0	370.8	1.6	161.4	0.7	23,062.3	100.0	0.0	0.0	23,062.3
Extrabudgetary funds	1,581.2	29.7	2,887.5	54.2	125.6	2.3	2.4	0.1	158.1	3.0	570.9	10.7	0.0	0.0	5,325.7	100.0	0.0	0.0	5,325.7
Assistance in kind	501.9	18.1	0.0	0.0	1,484.7	53.7	2.7	0.1	776.1	28.1	0.0	0.0	0.0	0.0	2,765.4	100.0	0.0	0.0	2,765.4
TOTAL	7,993.0	23.7	14,437.6	42.8	4,905.4	14.5	544.3	1.6	4,599.7	13.6	1,041.6	3.1	194.3	0.6	33,715.9	100.0	0.0	0.0	33,715.9
1986																			
UNDP funds	940.7	31.4	1,285.1	43.0	160.7	5.4	49.0	1.6	426.4	14.3	71.1	2.4	57.6	1.9	2,990.6	100.0	1,689.0	0.0	4,679.6
Agency funds	6,437.0	21.7	14,068.9	47.4	4,060.1	13.7	728.0	2.4	3,831.9	12.9	410.7	1.4	146.0	0.5	29,682.6	100.0	22,499.0	0.0	52,181.6
Extrabudgetary funds	1,459.4	29.1	2,759.1	54.9	131.8	2.6	1.4	0.0	338.4	6.7	335.1	6.7	0.0	0.0	5,025.2	100.0	2,936.2	0.0	7,961.4
Assistance in kind	427.3	18.7	0.0	0.0	1,504.5	65.9	0.0	0.0	350.1	15.4	0.0	0.0	0.0	0.0	2,281.9	100.0	0.0	983.1	3,265.0
TOTAL	9,264.4	23.2	18,113.1	45.3	5,857.1	14.7	778.4	1.9	4,946.8	12.4	816.9	2.0	203.6	0.5	39,980.3	100.0	27,124.2	983.1	68,087.6
1982-1986																			
UNDP funds	4,837.8	27.5	8,068.9	45.9	913.7	5.2	140.1	0.8	1,463.5	8.3	1,792.7	10.2	345.9	2.0	17,562.6	100.0	1,689.0	0.0	19,251.6
Agency funds	21,643.4	21.0	51,023.2	49.5	13,626.7	13.2	1,803.0	1.7	13,314.4	12.9	1,102.3	1.1	542.8	0.5	103,055.8	100.0	22,499.0	0.0	125,554.8
Extrabudgetary funds	6,343.8	27.0	13,148.9	55.9	941.7	4.0	18.5	0.1	1,249.4	5.3	1,799.2	7.7	0.0	0.0	23,501.5	100.0	2,936.2	0.0	26,437.7
Assistance in kind	1,537.0	13.0	312.5	2.7	8,111.6	68.9	2.7	0.0	1,815.1	15.4	0.0	0.0	0.0	0.0	11,778.9	100.0	0.0	983.1	12,762.0
TOTAL	34,362.0	22.0	72,553.5	46.5	23,593.7	15.1	1,964.3	1.3	17,842.4	11.4	4,694.2	3.0	888.7	0.6	155,898.8	100.0	27,124.2	983.1	184,006.1

TABLE 5
EXTRABUDGETARY FUNDS FOR TECHNICAL CO-OPERATION ACTIVITIES BY DONOR
(as at 31 December 1986)

Donor	Funds available 1 January 1986	New funds in 1986	Total funds available	Expenditures in 1986	Unliquidated obligations at year-end	Unobligated balance
A. Funds for activities where donor is not recipient						
Austria	164,045	-	164,045	5,707	-	158,338
Belgium	55,919	47,619	103,538	14,586	29,868	59,084
Canada	5,422	14,524	19,946	17,815	-	2,131
Chile	10,000	-	10,000	9,234	-	766
Finland	29,253	51,469	80,722	28,455	256	52,011
France	16,028	-	16,028	10,360	-	5,668
Germany, F.R.	1,028,275	1,283,409	2,311,684	539,687	64,877	1,707,120
Italy	8,836,213	(4,628,600)[b]	4,207,613	1,799,034	724,740	1,683,839
Japan	231,688	239,500	471,188	327,913	29,060	114,215
Norway	-	29,400	29,400	13,416	12,225	3,759
Saudi Arabia	12,229	-	12,229	8,000	-	4,229
Sweden	210,663[a]	-	210,663	46,797	30,793	133,073
USSR	1,456,172	887,793	2,343,965	780,302	377,101	1,186,562
UK	548,455	378,800	927,255	294,083	173,117	460,055
USA	3,324,428	1,153,224[c]	4,477,652	1,032,295[d]	961,454	2,483,903
UNIDO	-	43,322	43,322	43,322	-	-
Sub-total	**15,928,790**	**(499,540)**	**15,429,250**	**4,971,006**	**2,403,491**	**8,054,753**
B. Funds for activities where donor is recipient						
Brazil	(8,138)	8,138	-	-	-	-
Colombia	-	37,634	37,634	-	-	37,634
Ecuador	200,132	-	200,132	-	200,000	132
Iran, I.R.	135	249,546	249,681	-	129,482	120,199
Libyan A.J.	788	-	788	1,121	-	(333)
Nigeria	9,012	-	9,012	-	-	9,012
Syrian A.R.	77,171	-	77,171	40,431	23,422	13,318
Thailand	1,983	-	1,983	-	-	1,983
Yugoslavia	87,000	180,464	267,464	12,658	179,830	74,976
Sub-total	**368,083**	**475,782**	**843,865**	**54,210**	**532,734**	**256,921**
TOTAL	**16,296,873**	**(23,758)**	**16,273,115**	**5,025,216**	**2,936,225**	**8,311,674**

[a] Adjusted by deducting overhead cost of $4,901.
[b] Fund reduction owing to suspension of Egyptian Misr-med project.
[c] Includes $109,304 programmed for 1987.
[d] Includes $2,808 against future-year programme.

TABLE 6A

TECHNICAL CO-OPERATION PERSONNEL SERVICES: 1986

Recipient	Number of assignments	Number of man-months	Recipient	Number of assignments	Number of man-months
Albania	4	2.0	Morocco	16	14.0
Algeria	12	12.0	Nicaragua	5	1.0
Argentina	9	20.0	Niger	6	5.0
Bangladesh	13	9.5	Nigeria	16	46.0
Bolivia	13	8.0	Pakistan	14	10.5
Brazil	48	42.0	Panama	6	6.0
Bulgaria	5	1.5	Paraguay	9	5.0
Burma	2	1.5	Peru	34	73.0
Cameroon	3	1.0	Philippines	7	13.0
Chile	8	6.5	Poland	6	7.0
China	35	16.5	Portugal	8	3.5
Colombia	19	12.0	Romania	4	1.0
Costa Rica	15	42.0	Saudi Arabia	1	1.0
Cote d'Ivoire	9	4.0	Senegal	3	2.0
Cuba	13	8.5	Sierra Leone	1	1.0
Cyprus	3	1.0	Singapore	2	1.5
Dem. P.R. Korea	5	4.0	Spain	1	1.0
Dominican Republic	4	1.0	Sri Lanka	9	9.0
Ecuador	15	9.0	Sudan	12	9.0
Egypt	70	163.0	Syrian A.R.	29	20.0
El Salvador	10	3.0	Thailand	33	35.0
Ethiopia	3	1.5	Tunisia	8	2.0
Ghana	13	7.0	Turkey	25	12.5
Greece	3	0.5	Uganda	1	0.5
Guatemala	12	7.5	U.A. Emirates	1	0.5
Haiti	2	0.5	U.R. Tanzania	11	12.0
Hong Kong	1	1.0	Uruguay	16	10.0
Hungary	2	0.5	Venezuela	14	19.0
Indonesia	35	45.5	Viet Nam	9	7.0
Iran, I.R.	7	4.0	Yugoslavia	46	18.5
Iraq	17	6.5	Zaire	4	3.0
Jamaica	1	2.0	Zambia	9	10.0
Jordan	6	6.0			
Kenya	11	17.0	*Sub-total*	*907*	*934.0*
Korea, R.	33	39.0			
Madagascar	6	4.5	Intercountry projects	678	479.5
Malaysia	31	21.0	Training courses	345	102.5
Mali	4	2.0	*Sub-total*	*1,023*	*582.0*
Mauritius	2	5.0			
Mexico	29	27.0			
Mongolia	8	8.5	**GRAND TOTAL**	**1,930**	**1,516.0**

TABLE 6B

RECIPIENTS OF TRAINING ABROAD: 1986

Recipient	Fellows		Visiting scientists		Training course participants		Total	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
Albania	8	23.0	-	-	-	-	8	23.0
Algeria	7	26.0	2	1.0	9	9.0	18	36.0
Argentina	2	14.0	6	5.0	34	27.5	42	46.5
Bangladesh	21	101.0	1	0.5	23	24.0	45	125.5
Barbados	-	-	1	0.5	5	3.0	6	3.5
Benin	-	-	-	-	2	1.5	2	1.5
Bolivia	7	36.0	1	0.5	17	35.0	25	71.5
Brazil	14	51.0	17	13.0	42	52.5	73	116.5
Bulgaria	27	155.0	9	6.5	9	10.0	45	171.5
Burkina Faso	-	-	-	-	1	1.0	1	1.0
Burma	1	7.0	-	-	4	5.0	5	12.0
Burundi	-	-	-	-	1	1.0	1	1.0
Cameroon	-	-	-	-	1	1.0	1	1.0
Chile	10	54.0	12	11.0	19	18.5	41	83.5
China	17	66.0	10	4.5	58	54.5	85	125.0
Colombia	5	20.0	1	0.5	16	16.0	22	36.5
Costa Rica	7	29.0	4	2.5	3	2.0	14	33.5
Cote d'Ivoire	4	16.0	-	-	2	2.0	6	18.0
Cuba	3	14.0	5	2.5	8	21.0	16	37.5
Cyprus	1	4.0	-	-	1	1.0	2	5.0
Czechoslovakia	6	17.0	5	3.0	19	19.0	30	39.0
Dem. P.R. Korea	8	58.0	2	1.0	2	1.5	12	60.5
Dominican Republic	4	27.0	1	0.5	7	11.0	12	38.5
Ecuador	10	38.0	2	1.5	16	10.5	28	50.0
Egypt	33	190.0	3	2.5	18	17.5	54	210.0
El Salvador	-	-	2	2.0	1	1.0	3	3.0
Ethiopia	2	11.5	1	1.0	2	2.0	5	14.5
Ghana	12	57.0	1	1.0	7	8.0	20	66.0
Greece	8	30.0	-	-	-	-	8	30.0
Guatemala	6	31.0	-	-	14	11.0	20	42.0
Guyana	-	-	-	-	8	4.0	8	4.0
Hungary	19	90.0	13	7.0	13	16.0	45	113.0
India	3	20.0	-	-	38	35.0	41	55.0
Indonesia	23	97.0	7	5.0	33	33.0	63	135.0
Iran, I.R.	22	95.0	-	-	8	6.5	30	101.5

Recipient	Fellows		Visiting scientists		Training course participants		Total	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
Iraq	1	3.5	2	3.0	14	15.0	17	21.5
Ireland	-	-	2	1.0	-	-	2	1.0
Jamaica	1	10.0	3	2.0	7	3.0	11	15.0
Jordan	-	-	-	-	7	10.0	7	10.0
Kenya	7	44.0	-	-	5	6.5	12	50.5
Korea, R.	25	149.0	6	4.0	34	31.0	65	184.0
Lebanon	1	7.0	-	-	1	1.0	2	8.0
Liberia	-	-	-	-	1	1.0	1	1.0
Libyan A.J.	13	71.0	-	-	4	3.0	17	74.0
Madagascar	2	9.0	-	-	1	3.0	3	12.0
Malawi	-	-	-	-	2	2.0	2	2.0
Malaysia	17	52.0	4	2.0	36	36.5	57	90.5
Mali	2	11.0	1	1.0	2	2.0	5	14.0
Mauritius	-	-	-	-	2	3.5	2	3.5
Mexico	17	49.0	7	4.0	32	38.5	56	91.5
Morocco	7	22.0	5	3.0	10	10.5	22	35.5
Nepal	-	-	-	-	1	1.0	1	1.0
Nicaragua	1	3.0	-	-	-	-	1	3.0
Niger	2	4.5	-	-	3	6.0	5	10.5
Nigeria	11	35.0	-	-	11	10.5	22	45.5
Pakistan	27	170.0	11	8.0	26	20.0	64	198.0
Panama	6	19.0	-	-	2	2.0	8	21.0
Paraguay	2	10.0	2	1.5	18	18.0	22	29.5
P.R. Congo	-	-	-	-	1	1.0	1	1.0
Peru	18	95.0	1	0.5	19	13.0	38	108.5
Philippines	16	69.5	1	1.0	27	27.0	44	97.5
Poland	28	165.0	8	5.0	16	17.0	52	187.0
Portugal	8	39.0	6	4.0	1	1.0	15	44.0
Romania	3	9.0	1	1.0	7	7.0	11	17.0
St. Christopher	-	-	-	-	1	1.0	1	1.0
Saudi Arabia	-	-	-	-	1	1.0	1	1.0
Senegal	2	11.0	-	-	6	6.0	8	17.0
Sierra Leone	-	-	-	-	1	0.5	1	0.5
Singapore	3	5.0	1	1.0	9	5.0	13	11.0
Somalia	-	-	-	-	3	4.0	3	4.0

Recipient	Fellows		Visiting scientists		Training course participants		Total	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
Spain	-	-	-	-	6	7.0	6	7.0
Sri Lanka	14	80.5	1	0.5	30	27.0	45	108.0
Sudan	26	170.0	-	-	8	11.0	34	181.0
Syrian A.R.	15	91.0	-	-	4	5.0	19	96.0
Thailand	44	249.0	3	2.0	52	48.0	99	299.0
Trinidad	-	-	1	0.5	5	2.5	6	3.0
Tunisia	3	27.0	1	0.5	8	8.0	12	35.5
Turkey	24	91.0	5	2.0	14	17.0	43	110.0
Uganda	5	21.5	1	1.0	3	3.5	9	26.0
United Arab Emirates	1	1.0	-	-	-	-	1	1.0
U.R. Tanzania	15	70.0	3	2.0	10	10.0	28	82.0
Uruguay	5	25.0	4	2.0	18	11.0	27	38.0
Venezuela	4	11.0	2	1.0	17	24.0	23	36.0
Viet Nam	32	162.0	1	2.0	18	19.0	51	183.0
Yugoslavia	25	117.0	11	7.0	12	12.0	48	136.0
Zaire	4	17.0	2	1.0	6	8.0	12	26.0
Zambia	7	37.0	1	1.0	7	8.0	15	46.0
TOTAL	**734**	**3610.0**	**203**	**137.0**	**970**	**990.0**	**1907**	**4737.0**

(1) Number of trainees. (2) Number of man-months of training received.

TABLE 7

FINANCIAL SUMMARY: 1986

(in thousands of dollars)

Recipient	Assistance provided, by type						Assistance provided, by source					Unliquid.	
	Experts	Equip-ment	Fellow-ships	Sub-contracts	Total	UNDP	TACF CC	TACF NCC	Extra-bud.	In kind	Total	oblig.	TOTAL (11)+(12)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
AFGHANISTAN	0.0	16.9	0.0	0.0	16.9	0.0	16.9	0.0	0.0	0.0	16.9	0.0	16.9
ALBANIA	13.1	96.8	23.8	0.0	133.7	0.0	87.1	38.0	0.0	8.6	133.7	139.0	272.7
ALGERIA	86.3	331.7	36.5	0.0	454.5	0.0	423.4	31.1	0.0	0.0	454.5	149.9	604.4
ARGENTINA	95.7	117.0	27.8	0.0	240.5	237.8	0.0	0.0	0.0	2.7	240.5	199.1	439.6
BANGLADESH	74.6	665.0	156.8	0.0	896.4	0.0	477.2	346.7	21.5	51.0	896.4	815.8	1,712.2
BOLIVIA	50.0	161.0	35.5	0.0	246.5	0.0	214.3	11.7	20.5	0.0	246.5	172.8	419.3
BRAZIL	286.1	990.0	176.8	0.0	1,452.9	0.0	1,343.3	38.5	67.2	3.9	1,452.9	375.8	1,828.7
BULGARIA	10.0	172.2	231.4	0.0	413.6	0.0	384.0	4.0	0.0	25.6	413.6	1,923.3	2,336.9
BURMA	11.3	92.3	10.2	0.0	113.8	0.0	110.8	3.0	0.0	0.0	113.8	45.0	158.8
CAMEROON	6.3	0.6	0.0	0.0	6.9	0.0	6.9	0.0	0.0	0.0	6.9	2.2	9.1
CHILE	54.3	213.3	139.2	0.0	406.8	35.7	339.6	0.0	0.0	31.5	406.8	243.1	649.9
CHINA	147.1	128.9	176.6	0.0	452.6	88.6	348.5	0.0	0.0	15.5	452.6	201.0	653.6
COLOMBIA	94.9	248.2	30.1	0.0	373.2	0.0	369.9	2.2	1.1	0.0	373.2	109.1	482.3
COSTA RICA	188.6	158.5	54.9	7.0	409.0	234.6	172.0	0.0	0.0	2.4	409.0	115.5	524.5
COTE D'IVOIRE	35.6	109.2	26.5	0.0	171.3	0.0	146.3	5.0	0.0	20.0	171.3	57.7	229.0
CUBA	71.5	427.0	28.6	0.0	527.1	139.2	302.8	85.1	0.0	0.0	527.1	392.6	919.7
CYPRUS	8.6	21.0	11.8	0.0	41.4	0.0	32.2	0.0	0.0	9.2	41.4	5.7	47.1
CZECHOSLOVAKIA	0.0	0.0	32.9	0.0	32.9	0.0	31.6	1.3	0.0	0.0	32.9	21.0	53.9
DEM P.R. KOREA	37.2	586.0	103.9	0.0	727.1	0.0	202.2	435.1	17.1	72.7	727.1	1,651.7	2,378.8
DOMINICAN REPUBLIC	9.6	9.1	46.1	0.0	64.8	0.0	64.8	0.0	0.0	0.0	64.8	51.1	115.9
ECUADOR	80.4	318.2	50.5	0.0	449.1	0.5	241.3	170.9	30.1	6.3	449.1	504.7	953.8
EGYPT	675.7	1,119.6	363.0	158.7	2,317.0	15.0	465.9	81.0	1,506.4	248.7	2,317.0	1,760.8	4,077.8
EL SALVADOR	21.5	121.9	15.0	0.0	158.4	0.0	146.7	0.0	11.7	0.0	158.4	70.7	229.1
ETHIOPIA	17.5	155.4	18.3	0.0	191.2	0.0	168.7	22.5	0.0	0.0	191.2	25.4	216.6
GABON	(0.2)	31.5	0.0	0.0	31.3	0.0	31.3	0.0	0.0	0.0	31.3	0.2	31.5
GHANA	61.6	329.2	102.0	0.0	492.8	39.8	441.6	0.1	2.1	9.2	492.8	469.7	962.5
GREECE	4.4	102.0	46.6	0.0	153.0	0.0	90.8	0.5	47.2	14.5	153.0	143.2	296.2
GUATEMALA	41.1	104.3	29.4	0.0	174.8	0.0	174.8	0.0	0.0	0.0	174.8	191.7	366.5
HAITI	1.8	0.2	0.0	0.0	2.0	0.0	2.0	0.0	0.0	0.0	2.0	2.1	4.1
HONG KONG	8.8	4.6	0.0	0.0	13.4	0.0	13.4	0.0	0.0	0.0	13.4	4.0	17.4
HUNGARY	3.2	494.6	171.2	0.0	669.0	11.4	383.3	151.6	115.5	7.2	669.0	3,550.3	4,219.3
ICELAND	0.0	66.0	0.0	0.0	66.0	0.0	66.0	0.0	0.0	0.0	66.0	37.9	103.9
INDIA	0.0	0.0	37.7	0.0	37.7	0.0	0.0	0.0	37.7	0.0	37.7	12.2	49.9
INDONESIA	296.9	354.4	220.2	0.0	871.5	257.2	498.0	0.0	64.9	51.4	871.5	390.9	1,262.4
IRAN, I.R.	41.3	80.3	148.9	0.0	270.5	91.4	174.4	4.4	0.0	0.3	270.5	420.0	690.5
IRAQ	59.6	90.0	13.8	0.0	163.4	0.0	163.0	0.0	0.0	0.4	163.4	52.8	216.2
IRELAND	0.0	0.0	5.2	0.0	5.2	0.0	5.2	0.0	0.0	0.0	5.2	0.0	5.2
JAMAICA	20.2	55.9	13.6	0.0	89.7	0.0	66.5	10.2	13.0	0.0	89.7	65.7	155.4
JORDAN	44.0	88.3	0.9	0.0	133.2	0.0	133.2	0.0	0.0	0.0	133.2	19.4	152.6
KENYA	71.6	245.1	74.9	0.0	391.6	0.0	222.5	0.0	113.0	56.1	391.6	181.9	573.5

Recipient	Assistance provided, by type					Assistance provided, by source						Unliquid.	
	Experts	Equip-ment	Fellow-ships	Sub-contracts	Total	UNDP	TACF CC	TACF NCC	Extra-bud.	In kind	Total	oblig.	TOTAL (11) + (12)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
KOREA, R.	381.4	155.4	321.1	0.0	857.9	25.4	556.2	0.0	128.7	147.6	857.9	335.2	1,193.1
LEBANON	0.0	32.4	10.9	0.0	43.3	0.0	43.3	0.0	0.0	0.0	43.3	0.0	43.3
LIBYAN A.J.	2.0	95.3	103.2	0.0	200.5	0.0	191.6	7.8	1.1	0.0	200.5	110.8	311.3
MADAGASCAR	31.5	44.6	8.6	0.0	84.7	1.1	82.9	0.0	0.0	0.7	84.7	40.7	125.4
MALAYSIA	150.2	318.6	112.7	0.0	581.5	0.0	501.4	39.6	22.2	18.3	581.5	386.0	967.5
MALI	29.4	125.5	25.8	0.0	180.7	0.0	165.0	0.0	15.7	0.0	180.7	215.3	396.0
MAURITIUS	47.7	23.9	4.7	0.0	76.3	0.0	76.3	0.0	0.0	0.0	76.3	33.6	109.9
MEXICO	188.0	275.7	149.7	110.1	723.5	0.0	528.9	0.0	136.9	57.7	723.5	216.7	940.2
MONGOLIA	58.8	90.7	(0.7)	0.0	148.8	0.0	137.6	6.8	0.0	4.4	148.8	31.5	180.3
MOROCCO	84.2	168.6	29.2	4.0	286.0	0.0	274.8	1.3	9.9	0.0	286.0	69.0	355.0
NICARAGUA	7.0	41.9	1.5	0.0	50.4	0.0	50.4	0.0	0.0	0.0	50.4	28.4	78.8
NIGER	26.2	37.8	4.2	0.0	68.2	0.0	63.1	0.0	0.0	5.1	68.2	111.3	179.5
NIGERIA	193.2	305.5	52.0	1.3	552.0	0.0	232.1	0.0	304.0	15.9	552.0	160.8	712.8
PAKISTAN	116.4	187.2	285.4	0.0	589.0	0.0	547.6	14.1	0.0	27.3	589.0	623.0	1,212.0
PANAMA	41.2	92.2	28.8	0.0	162.2	0.0	144.1	0.0	18.1	0.0	162.2	306.5	468.7
PARAGUAY	39.6	144.7	27.5	0.0	211.8	0.0	179.1	25.9	0.0	6.8	211.8	145.0	356.8
PERU	221.4	428.9	134.5	0.0	784.8	33.1	277.9	6.1	395.2	72.5	784.8	1,181.8	1,966.8
PHILIPPINES	150.6	409.4	144.6	0.0	704.6	66.2	468.4	0.0	130.3	39.7	704.6	354.3	1,058.9
POLAND	27.6	774.8	247.9	0.0	1,050.3	0.0	375.6	457.9	213.0	3.8	1,050.3	360.1	1,410.4
PORTUGAL	32.1	530.4	76.8	0.0	639.3	0.0	320.6	275.8	16.0	26.9	639.3	198.0	837.3
ROMANIA	8.0	298.3	25.7	0.0	332.0	57.2	259.6	15.2	0.0	0.0	332.0	167.7	499.7
SAUDI ARABIA	7.1	3.3	0.0	0.0	10.4	0.0	10.4	0.0	0.0	0.0	10.4	0.0	10.4
SENEGAL	29.2	100.8	19.1	0.0	149.1	22.9	126.2	0.0	0.0	0.0	149.1	31.0	180.1
SIERRA LEONE	6.8	19.2	0.0	0.0	26.0	0.0	26.0	0.0	0.0	0.0	26.0	5.7	31.7
SINGAPORE	12.1	66.5	19.0	0.0	97.6	0.0	90.3	0.0	0.0	7.3	97.6	13.9	111.5
SPAIN	14.4	0.0	0.0	0.0	14.4	0.0	14.4	0.0	0.0	0.0	14.4	0.0	14.4
SRI LANKA	64.1	293.1	145.3	0.0	502.5	0.2	270.7	0.0	143.6	88.0	502.5	260.3	762.8
SUDAN	91.0	256.4	242.0	0.0	589.4	0.0	484.9	0.1	36.5	67.9	589.4	237.8	827.2
SYRIAN A.R.	161.9	496.8	107.2	63.3	829.2	0.0	709.6	42.2	77.4	0.0	829.2	102.2	931.4
THAILAND	231.9	485.6	451.9	0.0	1,169.4	143.8	751.3	120.6	27.1	126.6	1,169.4	569.7	1,739.1
TUNISIA	17.8	89.2	45.6	0.0	152.6	0.0	115.5	0.0	17.8	19.5	152.6	103.8	256.4
TURKEY	147.0	358.4	203.6	0.0	709.0	0.0	628.1	9.9	2.0	69.0	709.0	156.3	865.2
UGANDA	0.9	12.5	36.5	0.0	49.9	0.0	41.2	8.7	0.0	0.0	49.9	51.7	101.6
U.A. EMIRATES	1.5	2.4	3.3	0.0	7.2	0.0	7.2	0.0	0.0	0.0	7.2	32.4	39.6
U.R. TANZANIA	74.5	300.7	140.7	0.0	515.9	0.0	515.9	0.0	0.0	0.0	515.9	147.1	663.0
URUGUAY	73.3	175.5	43.4	0.0	292.2	0.0	207.8	4.5	68.9	11.0	292.2	151.7	443.9
VENEZUELA	115.4	190.8	30.5	0.0	336.7	0.0	334.2	2.5	0.0	0.0	336.7	137.9	474.6
VIET NAM	53.6	396.4	224.0	0.0	674.0	0.0	286.1	300.3	25.9	61.7	674.0	825.1	1,499.1
YUGOSLAVIA	184.1	391.6	238.5	13.9	828.1	16.7	527.3	2.8	195.7	85.6	828.1	868.1	1,696.2
ZAIRE	23.8	134.2	32.2	0.0	190.2	0.0	140.9	3.5	45.8	0.0	190.2	62.5	252.7
ZAMBIA	92.0	226.1	76.8	0.0	394.9	0.0	379.6	0.0	4.7	10.6	394.9	718.2	1,113.1
SUB-TOTAL	5,969.1	16,887.5	6,514.3	358.3	29,729.2	1,517.8	19,706.5	2,788.5	4,105.3	1,611.1	29,729.2	24,126.1	53,855.3

Recipient	Assistance provided, by type					Assistance provided, by source						Unliquid.	
	Experts	Equip-ment	Fellow-ships	Sub-contracts	Total	UNDP	TACF CC	TACF NCC	Extra-bud.	In kind	Total	oblig.	TOTAL (11) + (12)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
INTERCOUNTRY PROJECTS													
INTERREGIONAL	1,903.3	408.9	9.3	115.0	2,436.5	0.0	1,794.1	31.3	411.6	199.5	2,436.5	875.1	3,311.6
AFRICA	153.5	76.3	19.6	0.0	249.4	0.0	215.2	0.0	7.3	26.9	249.4	176.2	425.6
ARAB	19.6	0.0	33.8	0.0	53.4	53.4	0.0	0.0	0.0	0.0	53.4	16.2	69.6
ASIA & PACIFIC	823.7	181.7	498.1	0.0	1,503.5	754.3	292.5	0.0	327.9	128.8	1,503.5	198.5	1,702.0
EUROPE	72.3	0.0	0.0	274.4	346.7	2.6	344.1	0.0	0.0	0.0	346.7	0.3	347.0
LATIN AMERICA	751.9	619.1	309.1	69.2	1,749.3	662.5	853.1	0.0	39.9	193.8	1,749.3	709.0	2,458.3
TRAINING COURSES													
INTERREGIONAL	449.0	411.7	2,255.2	0.0	3,115.9	0.0	2,565.0	368.2	133.2	49.5	3,115.9	752.2	3,868.1
AFRICA	45.2	42.3	36.7	0.0	124.2	0.0	106.6	0.0	0.0	17.6	124.2	72.2	196.4
ASIA & PACIFIC	146.7	154.8	155.5	0.0	457.0	0.0	390.5	11.8	0.0	54.7	457.0	195.1	652.1
LATIN AMERICA	16.3	34.8	18.1	0.0	69.2	0.0	69.2	0.0	0.0	0.0	69.2	3.3	72.5
SUB-TOTAL	4,381.5	1,929.6	3,335.4	458.6	10,105.1	1,472.8	6,630.3	411.3	919.9	670.8	10,105.1	2,998.1	13,103.2
MISCELLANEOUS	39.5	66.3	38.1	2.1	146.0	0.0	146.0	0.0	0.0	0.0	146.0	0.0	146.0
GRAND TOTAL	10,390.1	18,883.4	9,887.8	819.0	39,980.3	2,990.6	26,482.8	3,199.8	5,025.2	2,281.9	39,980.3	27,124.2	67,104.5

TABLE 8

FINANCIAL SUMMARY: 1958-1986

(in thousands of dollars)

Recipient	Assistance provided, by type					Assistance provided, by source				
	Experts	Equip-ment	Fellow-ships	Sub-contracts	Total	UNDP	Agency funds	Extra-budgetary funds a/	In kind	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Afghanistan	378.6	441.5	120.5	-	940.6	92.9	765.9	-	81.8	940.6
Albania	92.0	1192.4	111.0	-	1395.4	119.2	1247.1	-	29.1	1395.4
Algeria	271.5	877.6	182.0	-	1331.1	21.7	1256.0	-	53.4	1331.1
Argentina	3227.4	2047.4	1195.5	-	6470.3	4262.3	1652.4	17.5	538.1	6470.3
Bangladesh	873.9	3304.7	2057.1	-	6235.7	63.8	3797.6	1087.9	1286.4	6235.7
Bolivia	485.4	1311.2	360.8	-	2157.4	159.5	1546.4	287.8	163.7	2157.4
Brazil	4775.9	4810.6	2084.6	-	11671.1	5660.4	4512.9	783.5	714.3	11671.1
Bulgaria	129.5	1960.3	1823.9	-	3913.7	543.9	2770.2	-	599.6	3913.7
Burma	778.9	1359.9	210.8	-	2349.6	537.0	1709.0	-	103.6	2349.6
Cameroon	369.8	162.8	44.2	-	576.8	297.3	250.3	22.4	6.8	576.8
Cape Verde	3.1	0.1	-	-	3.2	3.2	-	-	-	3.2
Chad	116.3	30.6	-	-	146.9	146.9	-	-	-	146.9
Chile	2583.7	2331.5	1344.5	-	6259.7	3609.8	2206.0	-	443.9	6259.7
China	236.2	141.6	275.9	-	653.7	88.6	515.8	-	49.3	653.7
Colombia	1226.9	2325.9	753.9	-	4306.7	1693.6	1826.0	189.3	597.8	4306.7
Costa Rica	813.6	951.2	243.1	7.0	2014.9	566.3	1029.6	234.3	184.7	2014.9
Cote d'ivoire	301.4	607.0	62.5	-	970.9	73.4	841.5	29.2	26.8	970.9
Cuba	429.6	4363.1	294.7	-	5087.4	1648.8	3258.5	39.2	140.9	5087.4
Cyprus	120.0	562.7	193.9	-	876.6	24.1	652.2	34.6	165.7	876.6
Czechoslovakia	-	104.8	950.7	-	1055.5	6.2	664.8	12.9	371.6	1055.5
Dem. P.R. Korea	69.7	1693.2	567.5	-	2330.4	-	1823.6	41.0	465.8	2330.4
Dominican Republic	114.0	425.2	96.5	-	635.7	-	615.8	3.9	16.0	635.7
Ecuador	1166.5	2101.4	387.0	-	3654.9	547.5	2532.4	250.9	324.1	3654.9
Egypt	3028.0	8534.4	2926.3	973.5	15462.2	1498.2	5678.4	6344.4	1941.2	15462.2
El Salvador	131.6	285.4	165.9	-	582.9	14.1	362.1	32.1	174.6	582.9
Ethiopia	460.7	555.3	307.9	-	1323.9	437.5	835.6	-	50.8	1323.9
Gabon	41.3	57.5	-	-	98.8	-	98.8	-	-	98.8
Ghana	587.2	1414.3	2084.2	-	4085.7	308.8	2127.0	341.8	1308.1	4085.7
Greece	1903.3	1300.8	1149.4	-	4353.5	1561.9	1832.4	345.3	613.9	4353.5
Guatemala	226.6	807.3	149.1	-	1183.0	56.2	910.3	108.0	108.5	1183.0
Haiti	2.7	0.2	-	0.5	3.4	0.5	2.9	-	-	3.4
Honduras	-	-	0.7	-	0.7	-	0.7	-	-	0.7
Hong Kong	68.7	111.3	26.1	-	206.1	-	197.1	-	9.0	206.1
Hungary	105.5	3727.4	1637.8	-	5470.7	689.2	4353.3	123.5	304.7	5470.7
Iceland	66.9	600.8	144.9	-	812.6	-	687.3	-	125.3	812.6
India	1015.8	3801.6	2667.0	-	7484.4	2920.3	1280.7	2121.2	1162.2	7484.4
Indonesia	2330.1	2480.6	1496.8	-	6307.5	1834.6	3094.0	599.7	779.2	6307.5
Iran, I.R.	805.0	1320.8	799.5	131.5	3056.8	1729.6	935.3	101.0	290.9	3056.8
Iraq	483.3	1067.7	777.2	-	2328.2	242.5	1643.6	25.0	417.1	2328.2
Ireland	-	-	5.2	-	5.2	-	5.2	-	-	5.2
Israel	257.8	819.8	438.7	-	1516.3	170.9	900.6	18.0	426.8	1516.3
Jamaica	199.5	505.7	55.9	-	761.1	15.3	662.0	13.0	70.8	761.1
Jordan	357.2	627.7	196.1	-	1181.0	89.3	888.8	100.6	102.3	1181.0
Kenya	691.3	991.9	711.3	-	2394.5	33.2	1523.5	497.3	340.5	2394.5
Korea, Rep.	2478.6	1644.9	2574.6	-	6698.1	607.6	3386.9	968.4	1735.2	6698.1
Kuwait	12.0	-	3.9	-	15.9	-	15.9	-	-	15.9
Lebanon	248.5	298.4	117.7	-	664.6	139.3	470.7	31.4	23.2	664.6
Liberia	117.3	29.0	-	-	146.3	60.2	29.8	-	56.3	146.3
Libyan A.J.	291.2	313.4	375.3	-	979.9	7.3	909.4	9.4	53.8	979.9
Madagascar	1265.6	1355.3	162.8	-	2783.7	1436.6	1059.2	244.2	43.7	2783.7
Malawi	5.1	-	-	-	5.1	5.1	-	-	-	5.1
Malaysia	1106.8	1862.7	876.1	-	3845.6	1.6	2703.8	652.7	487.5	3845.6
Mali	529.5	792.7	250.5	-	1572.7	13.4	1362.2	128.0	69.1	1572.7
Mauritius	78.1	151.7	26.4	-	256.2	-	252.4	3.8	-	256.2
Mexico	2245.4	1019.6	1109.2	282.4	4656.6	419.3	2875.1	705.8	656.4	4656.6

Recipient	Assistance provided, by type					Assistance provided, by source				
	Experts	Equipment	Fellowships	Sub-contracts	Total	UNDP	Agency funds	Extra-budgetary funds a/	In kind	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Mongolia	232.9	952.2	24.4	-	1209.5	-	1185.3	10.6	13.6	1209.5
Morocco	1575.0	1169.8	332.5	18.0	3095.3	909.6	1776.6	183.1	226.0	3095.3
Nicaragua	49.7	131.4	29.0	-	210.1	-	210.1	-	-	210.1
Niger	271.3	402.3	50.8	-	724.4	-	691.1	-	33.3	724.4
Nigeria	2705.7	2097.4	841.5	30.4	5675.0	980.9	1245.1	2824.0	625.0	5675.0
Niue	7.8	6.9	-	-	14.7	14.7	-	-	-	14.7
Pakistan	1705.7	2707.8	3052.6	-	7466.1	1842.0	4249.2	90.6	1284.3	7466.1
Panama	291.0	571.5	208.2	-	1070.7	4.1	834.5	117.8	114.3	1070.7
Paraguay	205.0	728.8	228.5	-	1162.3	-	963.5	94.1	104.7	1162.3
Peru	3112.9	5113.9	1252.9	-	9479.7	3714.1	2493.2	2487.6	784.8	9479.7
Philippines	2252.5	2855.1	3182.0	57.7	8347.3	1950.2	3339.9	1136.0	1921.2	8347.3
Poland	99.9	2441.2	2063.1	-	4604.2	202.9	3667.2	214.4	519.7	4604.2
Portugal	238.7	1896.3	346.9	-	2481.9	-	1781.8	531.6	168.5	2481.9
Romania	716.3	3954.8	840.9	134.5	5646.5	2699.6	2664.8	52.2	229.9	5646.5
St. Christopher	-	-	8.5	-	8.5	-	-	8.5	-	8.5
Saudi Arabia	66.8	11.9	12.8	-	91.5	-	84.5	-	7.0	91.5
Senegal	390.9	997.4	197.5	-	1585.8	345.8	1019.8	154.7	65.5	1585.8
Sierra Leone	408.5	241.9	127.6	-	778.0	174.5	490.9	12.4	100.2	778.0
Singapore	339.9	907.9	116.0	-	1363.8	-	1194.0	103.3	66.5	1363.8
Spain	382.3	-	98.4	-	480.7	-	401.6	56.0	23.1	480.7
Sri Lanka	884.3	2005.8	1365.4	-	4255.5	307.9	2900.7	536.3	510.6	4255.5
Sudan	678.4	1697.6	1445.1	-	3821.1	296.7	2510.5	490.4	523.5	3821.1
Syrian A.R.	456.8	1085.8	460.3	63.3	2066.2	229.6	1646.0	104.7	85.9	2066.2
Thailand	1756.7	3325.5	3452.7	3.8	8538.7	689.3	4406.0	1414.5	2028.9	8538.7
Tunisia	633.0	834.7	320.7	-	1788.4	141.2	1265.6	256.3	125.3	1788.4
Turkey	1868.9	2114.1	2775.7	22.2	6780.9	1628.7	3409.9	125.5	1616.8	6780.9
Uganda	265.1	241.5	269.7	-	776.3	131.0	602.6	-	42.5	776.3
U.A. Emirates	32.6	10.5	3.3	-	46.4	-	46.4	-	-	46.4
U.R. Tanzania	409.4	1074.4	480.8	-	1964.6	9.6	1849.2	7.1	98.7	1964.6
Uruguay	647.6	1888.4	374.0	-	2910.0	193.1	1778.7	640.2	298.0	2910.0
Venezuela	1009.9	815.7	319.4	-	2145.0	135.2	1761.5	65.9	182.4	2145.0
Viet Nam	304.8	2708.5	897.7	-	3911.0	31.4	3345.7	134.6	399.3	3911.0
Yugoslavia	1210.3	4134.3	2157.4	37.0	7539.0	3047.6	3054.9	779.8	656.7	7539.0
Zaire	587.5	1396.4	598.9	-	2582.8	577.2	1531.4	175.7	298.5	2582.8
Zambia	956.0	1373.6	582.9	-	2912.5	152.5	2332.3	160.8	266.9	2912.5
Other countries b/	457.7	228.7	1455.9	-	2142.3	403.9	886.5	-	851.9	2142.3
Sub-total	66916.3	121708.9	84571.1	1761.8	254958.1	55272.2	138180.2	29517.7	31988.0	254958.1
				Interregional projects and training courses						
Africa	628.9	652.5	271.0	-	1552.4	332.8	1156.7	7.3	55.6	1552.4
Arab States	19.6	-	33.8	-	53.4	53.4	-	-	-	53.4
Asia and the Pacific	3633.8	3238.5	2233.9	81.1	9187.3	5097.7	2087.6	1155.9	846.1	9187.3
Europe	195.4	35.8	17.3	695.9	944.4	59.5	883.5	-	1.4	944.4
Latin America	3184.0	2348.3	1285.6	217.6	7035.5	2514.1	3137.4	315.2	1068.8	7035.5
Middle East	5.8	1.2	5.3	-	12.3	12.3	-	-	-	12.3
Interregional	8717.9	4337.4	16970.7	328.0	30354.0	1790.5	23306.1	2875.8	2381.6	30354.0
Sub-total	16385.4	10613.7	20817.6	1322.6	49139.3	9860.3	30571.3	4354.2	4353.5	49139.3
Miscellaneous	314.3	367.0	145.6	6.8	833.7	23.2	810.5	-	-	833.7
TOTAL	83616.0	132689.6	85534.3	3091.2	304931.1	65155.7	169562.0	33871.9	36341.5	304931.1

a/ The assistance provided from extrabudgetary funds prior to 1977 is included under assistance "in kind".

b/ Includes the following countries which have not received technical assistance during the last ten or more years: Austria, Democratic Kampuchea, Denmark, Finland, France, the Federal Republic of Germany, Italy, Japan, Monaco, the Netherlands, New Zealand, Norway, Somalia, South Africa, Sweden, Switzerland, the United States of America and Zimbabwe.

ANNEX I

DISBURSEMENT OF EXTRABUDGETARY AND IN-KIND CONTRIBUTIONS

A. Assistance for activities where donor is not recipient (*in thousands of dollars*)

Donor	Extrabudgetary						In kind					
	Experts	Equip-ment	Fellow-ships	Other training	Sub-contracts	Sub-total	Experts	Equip-ment	Fellow-ships	Other training	Sub-total	TOTAL
Countries												
Argentina	-	-	-	-	-		34.8	-	-	4.0	38.8	38.8
Australia	-	-	-	-	-	-	73.4	-		22.8	96.2	96.2
Austria	-	5.7	-	-	-	5.7	0.2	-	23.5	-	23.7	29.4
Belgium	3.7	10.9	-	-	-	14.6	11.9	-	66.8	-	78.7	93.3
Brazil	-	-	-	-	-	-	19.8	-	51.0	-	70.8	70.8
Bulgaria	-	-	-	-	-	-	9.4	-	-	-	9.4	9.4
Canada	-	3.3	14.5	-	-	17.8	54.2	-	-	47.4	101.6	119.4
Chile	-	-	9.2	-	-	9.2	11.4	-	-	-	11.4	20.6
China	-	-	-	-	-	-	1.5	-	-		1.5	1.5
Colombia	-	-	-	-	-	-	2.8	-	-	-	2.8	2.8
Costa Rica	-	-	-	-	-	-	2.9	-	-	-	2.9	2.9
Czechoslovakia	-	-	-	-	-	-	2.4	-	87.1	-	89.5	89.5
Denmark	-	-	-	-	-	-	-	-	11.7	-	11.7	11.7
Ecuador	-	-	-	-	-	-	4.4	-	-	-	4.4	4.4
Egypt	-	-	-	-	-	-	5.6	-	-	6.9	12.5	12.5
Finland	15.9	12.6	-	-	-	28.5	3.9	-	-	-	3.9	32.4
France	-	10.4	-	-	-	10.4	46.6	-	82.0	-	128.6	139.0
German D.R.	-	-	-	-	-	-	1.0	-	-	-	1.0	1.0
Germany, F.R.	191.3	307.4	-	41.0	-	539.7	31.0	-	105.5	-	136.5	676.2
Guatemala	-	-	-	-	-	-	4.4	-	-	-	4.4	4.4
Hungary	-	-	-	-	-	-	7.7	-	12.9	0.8	21.4	21.4
Iceland	-	-	-	-	-	-	3.9	-	-	-	3.9	3.9
India	-	-	-	-	-	-	5.3	-	44.5	18.8	68.6	68.6
Iraq	-	-	-	-	-	-	1.5	-	-	-	1.5	1.5
Italy	823.1	727.8	(1.9)	-	250.0	1799.0	12.5	-	67.4	-	79.9	1878.9
Jamaica	-	-	-	-	-	-	1.5	-	-	-	1.5	1.5
Japan	108.5	-	14.2	205.2	-	327.9	20.6	-	-	-	20.6	348.5
Jordan	-	-	-	-	-	-	7.1	-	-	-	7.1	7.1
Kenya	-	-	-	-	-	-	0.5	-	-	-	0.5	0.5
Korea, R.	-	-	-	-	-	-	2.6	-	-	-	2.6	2.6
Malaysia	-	-	-	-	-	-	1.5	-	-	-	1.5	1.5
Mexico	-	-	-	-	-	-	9.5	-	-	-	9.5	9.5
Morocco	-	-	-	-	-	-	3.0	-	-	-	3.0	3.0
Netherlands	-	-	-	-	-	-	9.5	-	21.6	-	31.1	31.1
Nigeria	-	-	-	-	-	-	0.6	-	-	-	0.6	0.6
Norway	-	12.0	1.4	-	-	13.4	-	-	-	-	-	13.4
Peru	-	-	-	-	-	-	6.8	-	-	-	6.8	6.8
Poland	-	-	-	-	-	-	2.6	-	12.0	-	14.6	14.6
Portugal	-	-	-	-	-	-	2.1	-	-	-	2.1	2.1
Romania	-	-	-	-	-	-	0.9	-	-	-	0.9	0.9
Saudi Arabia	8.0	-	-	-	-	8.0	-	-	-	-	-	8.0
Sierra Leone	-	-	-	-	-	-	7.3	-	-	-	7.3	7.3
Spain	-	-	-	-	-	-	19.4	-	13.5	-	32.9	32.9
Sri Lanka	-	-	-	-	-	-	0.6	-	-	-	0.6	0.6
Sweden	4.9	5.3	37.9	(1.3)	-	46.8	10.3	-	-	-	10.3	57.1

Donor	Extrabudgetary						In kind					
	Experts	Equip-ment	Fellow-ships	Other training	Sub-contracts	Sub-total	Experts	Equip-ment	Fellow-ships	Other training	Sub-total	TOTAL
Countries (continued)												
Switzerland	-	-	-	-	-	-	4.4	-	-	-	4.4	4.4
Syrian A.R.	-	-	-	-	-	-	2.2	-	-	-	2.2	2.2
Thailand	-	-	-	-	-	-	1.9	-	-	-	1.9	1.9
Tunisia	-	-	-	-	-	-	1.6	-	-	-	1.6	1.6
Turkey	-	-	-	-	-	-	2.8	-	-	-	2.8	2.8
UK	20.7	272.7	0.7	-	-	294.1	33.9	-	89.0	-	122.9	417.0
USSR	-	724.2	56.1	-	-	780.3	5.9	-	-	-	5.9	786.2
USA	283.3	613.7	-	50.2	85.1	1032.3	107.6	-	816.0	-	923.6	1955.9
Uruguay	-	-	-	-	-	-	8.2	-	-	-	8.2	8.2
Venezuela	-	-	-	-	-	-	7.5	-	-	-	7.5	7.5
Yugoslavia	-	-	-	-	-	-	4.3	-	-	-	4.3	4.3
Sub-total	1459.4	2706.0	132.1	295.1	335.1	4927.7	639.2	-	1504.5	100.7	2244.4	7172.1
Organizations												
FAO	-	-	-	-	-	-	3.6	-	-	-	3.6	3.6
World Bank	-	-	-	-	-	-	8.4	-	-	-	8.4	8.4
IFFIT	-	-	-	-	-	-	5.2	-	-	-	5.2	5.2
UNIDO	-	-	-	43.3	-	43.3	-	-	-	-	-	43.3
UNDP	-	-	-	-	-	-	12.2	-	-	-	12.2	12.2
UNESCO	-	-	-	-	-	-	1.9	-	-	-	1.9	1.9
WHO	-	-	-	-	-	-	6.2	-	-	-	6.2	6.2
Sub-total	-	-	-	43.3	-	43.3	37.5	-	-	-	37.5	80.8
GRAND TOTAL	1459.4	2706.0	132.1	338.4	335.1	4971.0	676.7	-	1504.5	100.7	2281.9	7252.9

B. Assistance for activities where donor is recipient (in thousands of dollars)

Donor	Project title and code	Equip-ment	Fellow-ships	Country total
Libyan A.J.	Nuclear raw materials, LIB/3/004	-	1.1	1.1
Syrian A.R.	Procurement assistance, SYR/0/005	40.4	-	40.4
Yugoslavia	Failed fuel detection, YUG/9/021	12.7	-	12.7
TOTAL		53.1	1.1	54.2

ANNEX II

TRAINING COURSES AND STUDY TOURS: 1986

Project title and code	Place(s) and dates	Source of funds	Participation [a] (1)	(2)	(3)	Amount(s) obligated [b] ($)
Second demonstration on on-stream analysis and control of mineral concentrators employing nucleonic systems, RAS/8/048	Philippines 13 January - 14 March	Australia	11	-	-	In-kind
First executive management seminar on industrial tracer applications, RAS/8/049	Malaysia, Indonesia, Korea, R. and Bangladesh 20 January - 2 February	UNDP	5	-	-	16,832 (CC)
Executive management seminar and expert advisory group meeting on industrial sterilization of medical products, RAS/8/051	Thailand, Sri Lanka and Korea, R. 3 - 12 February	UNDP	-	-	100 [c]	25,764 (CC)
Course on nuclear power planning and feasibility studies, INT/0/041	Saclay, France 3 February - 14 March	Agency	28	1	-	102,053 (CC)
Course on probabilistic safety assessment for nuclear power plant operations, INT/9/057	Argonne, USA 10 February - 28 March	Agency	31	-	-	164,606 (CC)
Second workshop on radiation protection, RLA/9/009/1	Santiago, Chile 17 - 21 February	Agency	10	-	2	45,229 (CC)
Course on radiography, level I RLA/8/005/125	Kingston, Jamaica 17 - 28 February	Agency Canada	7	-	-	144,751 (CC) In-kind
Fifth demonstration on the use of nucleonic control systems in the paper industry, RAS/8/050	Thailand and Japan 17 February - 7 March	UNDP Japan	13	-	-	33,132 (CC) 7,932 (CC)
Workshop on Fortran programming for nuclear applications, RLA/4/006/1	Lima, Peru 17 February - 14 March	Agency	7	-	5	79,897 (CC)
Course on the preparation of nuclear data for use in reactor calculations, INT/1/035	Bombay, India 31 March - 25 April	Agency	19	-	3	71,987 (CC)

Project title and code	Place(s) and dates	Source of funds	Participation [a]			Amount(s) obligated [b]
			(1)	(2)	(3)	($)
Course on radiological protection and nuclear safety, INT/9/070	Buenos Aires, Argentina 1 April - 30 November	Agency	11	-	-	135,758 (CC)
Course on the induction and use of mutations in plant breeding, INT/5/101	Seibersdorf, Austria 8 April - 16 May	Agency	18	1	-	117,621 (CC)
Study tour on food irradiation development, RAS/5/017	China 12 - 25 April	Agency	14	-	-	26,254 (CC) 12,320 (NCC)
Overview course on regulatory aspects of radiation and nuclear safety, RAS/0/011	Kuala Lumpur, Malaysia 21 - 26 April	Agency	9	-	-	27,239 (CC)
Course on computer-aided non-destructive testing, RLA/8/011	Cuernavaca, Mexico 21 April - 9 May	UNFSSTD	16	-	-	36,794 (CC)
Course on the use of neutron generators in material and analytical research, INT/1/040	Chiang Mai, Thailand 21 April - 23 May	Agency	16	-	-	111,112 (CC)
Course on the use of nuclear techniques in health-related environmental research and monitoring, RAS/6/009	Sydney, Australia 28 April - 30 May	Agency	15	-	-	81,574 (CC)
Workshop on design, mounting and maintenance of modular nuclear instrumentation, RLA/4/006/2	Bogota, Colombia 5 - 20 May	Agency	6	-	4	[d]
Study tour on spent fuel management, INT/4/076	UK, Sweden, Czechoslovakia, Germany, F.R., France 5 - 30 May	Agency	25	-	-	107,892 (CC) 6,381 (NCC)
Course on quality assurance, INT/4/081	Saclay, France 5 May - 6 June	Agency	26	-	2	89,491 (CC)
Study tour on research reactor utilization, INT/4/086	France, Germany, F.R., USSR and Yugoslavia 12 May - 10 June	Agency	21	-	-	80,582 (CC) 40,953 (NCC)

Project title and code	Place(s) and dates	Source of funds	Participation [a] (1)	(2)	(3)	Amount(s) obligated [b] ($)
Course on the use of isotope and radiation techniques in soil/plant relationships, INT/5/102	Seibersdorf, Austria 20 May - 20 June	Agency	17	3	-	77,073 (CC)
Course on management and disposal of radioactive wastes, INT/9/068	Chalk River, Canada 26 May - 13 June	Agency	29	-	-	127,587 (CC)
Course on the commissioning of nuclear power plants, INT/4/082	Oldbury-on-Severn, UK 10 - 27 June	Agency	23	-	-	84,378 (CC)
Course on operation and maintenance of nuclear power plants, ROK/4/012	Daejeon, Korea, R. 16 - 27 June	Agency	-	-	-	34,915 (CC)
Demonstration on nucleonic instrumentation engineering, RAS/8/047	Tokyo, Japan 16 June - 4 July	Japan	14			63,394 (CC)
Course on the use of reactor neutron beams in the study of materials, RAS/1/007	Bombay, India 16 June - 12 July	Agency India	8	-	-	7,929 (CC) In-kind
Course on the use of isotopes and radiation in integrated pest management with special reference to the sterile insect technique, INT/5/105	Gainsville, USA 16 June - 8 August	Agency	22	1	1	128,710 (CC)
Course on advanced nuclear electronics, INT/4/085	Kingston, Jamaica 30 June - 26 September	Agency	16	-	2	209,871 (CC)
Workshop on food irradiation, RLA/5/020 funded from INT/0/038	Piracicaba, Brazil 7 - 18 July	Agency	9	-	9	16,624 (CC)
Course on ultrasoncis in welded joints, RLA/8/005/136	Brazil 28 July - 1 August	Agency Canada	14	-	3	[e]
Study tour on radiation disinfestation of grain, INT/5/104	Netherlands, Hungary, USSR 17 August - 5 September	Agency	26	-	-	73,098 (CC) 31,000 (NCC)
Study tour on nuclear energy manpower training, RAB/4/002	Buenos Aires, Argentina 25 August - 5 September	UNDP/OPE	10	-	-	50,963 (CC)

Project title and code	Place(s) and dates	Source of funds	Participation [a]			Amount(s) obligated [b] ($)
			(1)	(2)	(3)	
Course on radiography level II, RLA/8/005/127	Santiago, Chile 25 August - 5 September	Agency Canada	14	-	-	[e]
Course on surface methods level II, RLA/8/005/128	Guatemala 1 - 12 September	Agency Canada	11	-	8	[e]
Course on advanced analytical techniques, INT/1/041	Vienna, Austria 1 - 26 September	Agency UNIDO	21	-	-	65,057 (CC) 43,322 (CC)
Course and study tour on nuclear medicine, INT/6/033	USSR and German D.R., 1 September - 25 October	Agency	25	-	-	78,481 (CC) 140,224 (NCC)
Third demonstration on industrial sterilization of medical products, RAS/8/043	Bombay, India 8 - 26 September	UNDP	13	-	-	20,161 (CC)
Second demonstration on radiation crosslinking applications in wire and cable industry, RAS/8/055	Shanghai, China 8 - 26 September	UNDP	12	-	4	38,524 (CC)
Sixth course on non-destructive testing level II, RAS/8/054	Tokyo, Japan 8 September - 3 October	UNDP Japan	11	-	-	43,626 (CC) 62,378 (CC)
Course on electricity demand forecasting in nuclear power planning, INT/4/083	Argonne, USA 8 September - 10 October	Agency	30	1	-	173,724 (CC)
Industrial executive management seminars on radiation sterilization of medical products, RAS/8/053	China, Malaysia and Pakistan 10 - 22 September	UNDP	-	-	100 [c]	24,391 (CC)
Course on the use of radioisotope techniques in animal reproduction, RLA/5/019	Maracay, Venezuela 15 September - 3 October	Agency	14	-	2	33,247 (CC)
Course on the qualification of operational personnel, INT/4/084	Karlsruhe, Germany, F.R., 15 September - 23 October	Agency	31	-	-	130,393 (CC)
Course on plant breeding by using radiation induced mutations, RAS/5/016	Hangzhou, China 15 September - 26 October	Agency	18	-	-	119,937 (CC) 31,298 (NCC)

Project title and code	Place(s) and dates	Source of funds	Participation [a] (1)	(2)	(3)	Amount(s) obligated [b] ($)
Course on the application of computers to reactor calculations, RLA/4/007/1	Buenos Aires, Argentina 15 September - 12 December	Agency	5	-	2	30,056 (CC)
Course on radioimmunoassay and its clinical application, RAS/6/012	Bombay, India 22 September - 31 October	India	14	-	-	In-kind
Course on radiography, level III, RLA/8/012	Bogota, Colombia 29 September - 10 October	FSSTD	12	-	-	22,003 (CC)
Third demonstration on radiation curing of surface coating of wood products, RAS/8/057	Indonesia and Japan 29 September - 24 October	UNDP Japan	8	-	2	28,990 (CC) 8,079 (CC)
Train-the-trainers course on ultrasonic testing, RAS/8/052	China 6 - 17 October	UNDP	12	-	4	30,558 (CC)
Workshop on calibration procedures in dosimetry, RLA/9/009/2	Quito, Ecuador 6 - 24 October	Agency	11	1	4	[f]
Course on the branchytherapy of the utering cancer using manual and remote after-loading techniques, RAS/6/006	Kuala Lumpur, Malaysia 6 - 26 October	Agency	18	-	-	101,737 (CC)
Course on the use of isotope and radiation techniques in studies on biological nitrogen fixation, INT/5/103	Seibersdorf, Austria 6 October - 7 November	Agency	19	-	-	92,508 (CC)
Seminar on radioactive waste management, RLA/9/009/4	Rio de Janeiro, Brazil 13 - 17 October	Agency	9	-	-	[f]
Seminar on designing the instrumentation and control system of a research reactor, RLA/4/006/3	Caracas, Venezuela 13 - 24 October	Agency	6	1	1	[d]
Course on radiation technology and engineering, INT/4/087	Budapest, Hungary 13 October - 6 November	Agency	13	1	1	36,271 (CC) 14,937 (NCC)
Course on nuclear applications in parasitology, INT/6/034	Cairo, Egypt 19 October - 20 November	Agency	14	-	-	75,785 (CC)

Project title and code	Place(s) and dates	Source of funds	Participation [a] (1)	(2)	(3)	Amount(s) obligated [b] ($)
Course on radiation protection in the mining and milling of radioactive ores, INT/9/069	Pocos de Caldas, Brazil 3 - 21 November	Agency	21	-	15	112,814 (CC)
Course on the use of radio- and enzyme immunoassay techniques in studies on animal reproduction, RAF/5/008	Nairobi, Kenya 3 - 28 November	Agency	24	-	6	103,296 (CC)
Course on multichanel analyzers and interfacing, RLA/4/006/4	Rio de Janeiro, Brazil 3 November - 5 December	Agency	7	-	4	[d]
Course on nuclear techniques in geology and minerology, RAS/3/005	Manila, Philippines 3 November - 12 December	Agency	16	-	6	90,159 (CC)
Second demonstration on industrial tracer applications, RAS/8/045	Bombay, India 10 - 28 November	UNDP	12	-	1	22,829 (CC)
Course on advanced X-ray fluorescence analysis, RLA/2/003	Paraguay 17 November - 12 December	Agency	10	-	1	34,332 (CC)
Course on radiation sterilization of human tissues, RAS/8/058	Colombo, Sri Lanka 24 November - 5 December	UNDP	13	-	7	40,881 (CC)
Seminar on NDT in thermoelectric plants, RLA/8/005/154	Irapuato, Mexico 1 - 5 December	Agency Canada	12	-	-	[e]
Workshop on the latest advances in librarianship and information management, RLA/0/009	Mexico City, Mexico 1 - 12 December	Agency	7	-	4	23,257 (CC)
Workshop on radioisotope production in reactors, including the technology of radionuclide generators, RLA/4/007/2	Buenos Aires, Argentina 1 - 19 December	Agency	9	-	-	[g]
Workshop on nuclear instrumentation, RLA/4/006/5	Rio de Janeiro, Brazil 8 - 12 December	Agency	6	-	1	[d]
Seminar on treatment of over-exposed persons, RLA/9/009/3	Caracas, Venezuela 8 - 12 December	Agency	5	-	4	[f]

Project title and code	Place(s) and dates	Source of funds	Participation [a]			Amount(s) obligated [b]
			(1)	(2)	(3)	($)
Executive management seminars on industrial radiation curing technology, RAS/8/060	Thailand and Malaysia 8 - 13 December	UNDP	-	-	50 [c]	15,372 (CC)
Course on the use and preparation of bulk reagents for radio-immunoassay of thyroid-related hormones, RAS/6/011	Bangkok, Thailand 8 - 19 December	Agency	13	-	7	27,189 (CC)

[a] The figures under (1) denote the number of award-holders whose cost of participation was met out of project funds; those under (2) denote the number of participants who attended at the expense of their government, or of another organization or programme; those under (3) denote the number of local participants. No stipends or international travel costs were paid out of project funds in respect of participants shown under (2) and (3).

[b] The amounts obligated (i.e. expenditures plus unliquidated obligations) do not include expenditures by host governments in respect of local lecturers, or expenditures for laboratory, lecture room and other facilities.

[c] Only approximate number.

[d] Amount included under "Workshop on Fortran programming for nuclear applications", RLA/4/006/1, held in Lima, Peru, during the period 17 February - 14 March.

[e] Amount included under "Course on radiography, level I", RLA/8/005/125, held in Kingston, Jamaica, during the period 17 - 28 February.

[f] Amount included under "Second workshop on radiation protection", RLA/9/009/1, held in Santiago, Chile, during the period 17 - 21 February.

[g] Amount included under "Course on the application of computers to reactor calculations", RLA/4/007/1, held in Buenos Aires, Argentina, during the period 15 September - 12 December.

ANNEX III

REPORTS SUBMITTED TO RECIPIENT-COUNTRY GOVERNMENTS

Recipient	Subject and project code	Author(s)	Reference no.	Status [a]
ALGERIA	ACTIVATION ANALYSIS BY FAST NEUTRONS (ALG/0/006)	BAKOS, LASZLO	IAEA-RU-0580	F
	METROLOGY AND MAINTENANCE OF NUCLEAR INSTRUMENTATION - INITIAL ASSESSMENT OF RESEARCH PROJECT (ALG/1/007)	MANFREDI, PIER FRANCESCO	IAEA-RU-0516	F
	NUCLEAR ANALYTICAL LABORATORY (ALG/2/002)	HELLEBOID, JEAN-MARIE JULES	IAEA-RU-0404	F
	FLUORESCENCE ANALYSIS (ALG/2/002)	TOEROEK, SZABINA	IAEA-RU-0510	F
	DETERMINATION OF NATURAL RADIOACTIVITY BY GAMMA-RAY SPECTROMETRY (ALG/3/002)	MONSECOUR, MARCEL RICHARD	IAEA-RU-0405	F
	MEDITERRANEAN FRUIT FLY REVIEW MISSION (ALG/5/006)	HARRIS, ERNEST JAMES REYES FLORES, JESUS	IAEA-RU-0436	F
	ADVISORY MISSION (ALG/5/007)	HASSAN, ALADIN	IAEA-RU-0615	U
	PLANT BREEDING (ALG/5/008)	MALUSZYNSKI, MIROSLAW	IAEA-RU-0428	F
	RADIOPHARMACEUTICAL QUALITY CONTROL LABORATORY LAY-OUT (ALG/6/003)	BELKAS, ELIAS P.	IAEA-RU-0402	F
	TECHNICAL CO-OPERATION MISSION TO ALGIERS FOR NUCLEAR MEDICINE (ALG/6/004)	GANATRA, RAMANIK	IAEA-RU-0400	F
	HYDROLOGY MEASUREMENTS (ALG/8/003)	FERHI, MOHAMED	IAEA-RU-0493	F
	ESTABLISHMENT OF A NON-DESTRUCTIVE TESTING LABORATORY AND TRAINING OF STAFF (ALG/8/005)	DOBROWOLSKI, MAREK KRZYSZTOF	IAEA-RU-0616	F
	IMPLEMENTATION OF A LOW LEVEL WASTE MANAGEMENT IN ALGERIA (ALG/9/005)	BAEHR, WERNER WILHELM	IAEA-RU-0426	F
ARGENTINA	CENTRO ATOMICO BARILOCHE: REPORT OF A CONSULTANCY MISSION (ARG/4/077)	JESTER, WILLIAM ANDREW	IAEA/UNDP-ARG/78/020-25	R
BANGLADESH	UPGRADING OF ANALYTICAL LABORATORY (BGD/3/005)	BASSET, MARCEL	IAEA-RU-0483	F
	DEVELOPMENT AND MAINTENANCE OF NUCLEAR INSTRUMENTATION (BGD/4/005)	BURR, ALEXANDER FULLER	IAEA-RU-0608	U
	VENTILATION AND FILTRATION IN ACTIVE BUILDING (BGD/4/006)	BHARGAVA, BANSI LAL	IAEA-RU-0504	F
	NUCLEAR ELECTRONICS INSTRUMENTATION (BGD/4/007)	THOMAS, BRUCE ROBERT	IAEA-RU-0550	U
	NEUTRON SCATTERING SUB-PROJECT (BGD/4/009)	MEHTA, MADHUKAR KAPILRAI	IAEA-RU-0553	F
	ORGANIZING AND PLANNING PILOT-SCALE MARKET TESTING OF IRRADIATED POTATOES, ONIONS AND DRIED FISH (BGD/5/007)	KISS, ISTVAN FERENC	IAEA-RU-0557	F
	RIA SERVICES (BGD/6/007)	SEATON, BRIAN	IAEA-RU-0449	F
	MOVEMENT AND TRANSPORT OF SEDIMENTS (BGD/8/004)	CRICKMORE, MAURICE JOHN	IAEA-RU-0501	F
BOLIVIA	SAMPLE PREPARATION TECHNIQUES, INSTRUMENT CALIBRATION AND DATA ACQUISITION/REDUCTION PROCEDURES FOR X-RAY FLUORESCENCE ANALYSES OF GEOLOGICAL, BIOLOGICAL AND ENVIRONMENTAL SAMPLES (BOL/0/005)	TISUE, THOMAS G.	IAEA-RU-0513	F
	ISOTOPES IN AGRICULTURE (BOL/5/004)	SEBASTIANELLI, JOSE ALDO	IAEA-RU-0469	F
	SOIL-PLANT WATER RELATIONSHIP STUDIES (BOL/5/004)	BROESHART, HANS	IAEA-RU-0542	F

Recipient	Subject and project code	Author(s)	Reference no.	Status [a]
BOLIVIA (cont'd.)	COMPUTER STUDIES WITH THE HELP OF GAMMA CAMERA (BOL/6/012)	NICKLES, ROBERT JEROME	IAEA-RU-0460	U
	RADIATION DOSIMETRY (BOL/9/005)	BORY, PAUL VICTOR	IAEA-RU-0403	F
BRAZIL	CO-ORDINATION AND PLANNING OF WORKSHOP (BRA/0/010)	VOSE, PETER BROWNHILL	IAEA-RU-0388	U
	URANIUM TITRATION PROCEDURES (BRA/0/011)	KUHN, ERWIN	IAEA-RU-0374	F
	EXPERT MISSION TO RIO DE JANEIRO (BRA/0/011)	MIGUEL, MANUEL	IAEA-RU-0582	U
	PRESENT AND FUTURE RADIOACTIVITY MEASUREMENTS (BRA/1/021)	HUTCHINSON, JOHN M. ROBIN	IAEA-RU-0412	U
	QUALIFICATION OF ZIRCALOY CLADDING TUBES (BRA/4/028)	STEINBERG, ECKARD PETER	IAEA-RU-0538	U
	RADIATION DEFECTS IN FERRO-ELECTRIC MATERIALS (BRA/4/029)	SPAETH, JOHANN MARTIN	IAEA-RU-0451	F
	NUCLEAR FUEL PRODUCTION AND QUALITY CONTROL IN BRAZIL (BRA/4/030)	VOLLATH, DIETER	IAEA-RU-0345	F
	NUCLEAR POWER PLANT SIMULATOR TRAINING (BRA/4/035)	MUNOZ CASES, JUAN J.	IAEA-RU-0552	F
	NUCLEAR POWER PLANT COMPONENT TESTING (BRA/4/036)	PETER, MARTIN	IAEA-RU-0456	F
	FERTILIZER APPLICATIONS (BRA/5/017)	KUMAZAWA, KIKUO	IAEA-RU-0398	F
	RADIOISOTOPES IN CLINICAL MEDICINE (BRA/6/008)	GEISELER, DIETRICH	IAEA-RU-0519	U
	CYCLOTRON - PRODUCED RADIOISOTOPES (BRA/6/010)	KERNERT, NORBERT MICHAEL	IAEA-RU-0433	F
	CYCLOTRON PRODUCTION OF RADIOISOTOPES AND RADIOPHARMACEUTICALS AT IPEN (BRA/6/010)	KNUST, ERNST JOACHIM	IAEA-RU-0470	U
	RADIOISOTOPES IN MEDICINE (BRA/6/010)	ERBE, DIETER JOSEF	IAEA-RU-0494	U
	SAFETY ASSESSMENT OF AUXILIARY SYSTEMS (BRA/9/017)	KRIEGER, GERHARD	IAEA-RU-0377	U
	TECHNICAL ASSISTANCE IN SAFETY ANALYSIS (BRA/9/017)	DAVID, DAVID JOHN	IAEA-RU-0593	F
	SET-UP, TESTING AND ENERGY CALIBRATION OF DETECTOR (BRA/9/023)	LAURER, GERARD ROBERT	IAEA-RU-0466	F
BRAZIL	RADIATION PROTECTION AND WASTE MANAGEMENT IN MINING AND MILLING OF URANIUM (BRA/9/027)	AHMED, JASIMUDDIN THOMAS, KARYANIL THOMAS	IAEA-RU-0355	F
BURMA	ISOTOPE TECHNIQUES IN PHARMACOLOGY (BUR/6/013)	ZAMBO, ISTVAN	IAEA-RU-0490	F
	RADIATION CHEMISTRY OF BIO-ORGANIC COMPOUNDS (BUR/7/004)	KLEN, RUDOLF	IAEA-RU-0491	F
CAMEROON	ASSESSMENT OF THE PRESENT STATUS OF THE RADIOISOTOPES LABORATORY (CMR/5/004)	BOWEN, GLYNN DANSO, SETH KOFI AKYEA ZAPATA, FELIPE	IAEA-RU-0572	F
CAPE VERDE	ENVIRONMENTAL ISOTOPE STUDY OF THE GROUNDWATER OF THE ISLAND OF SANTIAGO (CVI/8/002)	AKITI, THOMAS TETTEH	IAEA-RU-0439	U
CHILE	DEVELOPMENT AND TESTING OF URANIUM FUEL (CHI/4/010)	NAZARE, SILVESTRE	IAEA-RU-0525	U
	THERMOHYDRAULIC ANALYSIS FOR CORE CONVERSION (CHI/4/011)	PARKANSKY, DAVID	IAEA-RU-0495	U
	PLANNING AND INTERPRETATION OF EXPERIMENTS (CHI/5/010)	URQUIAGA, SEGUNDO URQUIAGA	IAEA-RU-0425	F
	REPRODUCTIVE PHYSIOLOGY OF THE VICUNA (CHI/5/013)	ROBERTSON, HAMISH ALEXANDER	IAEA-RU-0344	F
	REPRODUCTIVE ENDOCRINOLOGY (CHI/5/013)	LINCOLN, GERALD ANTHONY	IAEA-RU-0389	U
	USE OF COMPUTERS IN NUCLEAR MEDICINE (CHI/6/008)	RAFF, ULRICH	IAEA-RU-0336	F
	ISOTOPE HYDROLOGY IN THE PAMPA DEL TAMARUGAL (CHI/8/013)	MAGARITZ, MORDECKAI	IAEA-RU-0369	F

Recipient	Subject and project code	Author(s)	Reference no.	Status [a]
CHILE (cont'd.)	CALIBRATION AND RADIATION DOSE MEASUREMENTS (CHI/9/007)	VANA, NORBERT	IAEA-RU-0378	F
	NUCLEAR SAFETY ADVISORY MISSION (CHI/9/008)	MENDONCA DE LIMA, JOSE	IAEA-RU-0332	F
	DOSE ASSESSMENT (CHI/9/008)	DIAZ DE LA CRUZ, FRANCISCO	IAEA-RU-0376	U
	EVALUATION OF RESEARCH REACTOR SAFETY REPORT (CHI/9/008)	LEAO BACELAR, IGOR LUIZ	IAEA-RU-0518	U
	DEVELOPMENTS IN BIOLOGICAL DOSIMETRY (CHI/9/009)	PROSSER, JOHN STUART	IAEA-RU-0386	F
	LONG-TERM STORAGE AND DISPOSAL OF LOW-LEVEL SOLID RADIOACTIVE WASTES IN CHILE (CHI/9/010)	HEINONEN, JORMA	IAEA-RU-0371	F
	SOLIDIFICATION OF LOW- AND INTERMEDIATE-LEVEL RADIOACTIVE WASTES (CHI/9/010)	PALACIOS, ELIAS	IAEA-RU-0409	U
	THE CENTRAL CHILE TELEMETERED SEISMOGRAPHIC NETWORK AND ITS PLANNED EXTENSION (CHI/9/011)	MCEVILLY, THOMAS V.	IAEA-RU-0333	F
	SEISMIC ELEMENTARY NETWORK (CHI/9/011)	NIAZI, MANSOUR	IAEA-RU-0452	F
CHINA	RADIATION ENGINEERING (CPR/8/002)	YUAN, HONG-CHIEN	IAEA-RU-0521	F
COLOMBIA	USE OF X-RAY FLUORESCENCE LABORATORY (COL/2/009)	GAETA CABALLERO, RAFAEL	IAEA-RU-0551	F
	RADIOPHARMACEUTICAL KIT PRODUCTION AND QUALITY CONTROL (COL/2/010)	MITTA, ALDO EMILIO ANTONIO	IAEA-RU-0549	F
COLOMBIA	NUCLEAR RAW MATERIALS (COL/3/009)	BELLUCO, ALBERTO ESTEBAN	IAEA-RU-0512	F
	UPGRADING OF RESEARCH REACTOR (COL/4/006)	BANERJEA, ALOKE KUMAR	IAEA-RU-0399	U
	NUCLEAR INSTRUMENTATION (COL/4/007)	LEJEUNE, JOAQUIN	IAEA-RU-0473	U
	NITROGEN BALANCE IN RICE CROP (COL/5/007)	VICTORIA, REYNALDO LUIZ	IAEA-RU-0430	F
	NITROGEN BALANCE IN POTATO CROP (COL/5/007)	URQUIAGA, SEGUNDO URQUIAGA	IAEA-RU-0431	F
	STUDIES ON NITROGEN FERTILIZER USE EFFICIENCY (COL/5/007)	SEBASTIANELLI, JOSE ALDO	IAEA-RU-0462	U
	STUDIES ON NITROGEN FERTILIZER USE EFFICIENCY (COL/5/007)	BROESHART, HANS	IAEA-RU-0540	U
	DOSIMETRY AND ORGANIZATION OF LABORATORY (COL/5/008)	BRUNNER, HELMUT	IAEA-RU-0429	U
	RADIATION PROCESSING ON A PILOT SCALE (COL/8/011)	WIESNER, LOTHAR ALFRED ERWIN	IAEA-RU-0441	U
COSTA RICA	APPLICATION OF SOLID-STATE NUCLEAR TRACK DETECTORS (COS/1/005)	MONNIN, MICHEL JEAN-MARIE	IAEA-RU-0387	U
	REPRODUCTIVE PHYSIOLOGY (COS/5/007)	GALINA HIDALGO, CARLOS SALVADO	IAEA-RU-0380	F
	TECHNO-ECONOMIC FEASIBILITY OF FOOD IRRADIATION (COS/5/008)	MOY, JAMES H. REYES LUJAN, JAVIER	IAEA-RU-0397	U
	MUTATION BREEDING OF LEGUMES (COS/5/009)	MALUSZYNSKI, MIROSLAW	IAEA-RU-0555	U
	CENTRALIZED RADIOPHARMACEUTICAL SERVICE (COS/6/008)	BREMER, PER OSCAR	IAEA-RU-0407	F
	DEVELOPMENT OF THE MIRAVALLES GEOTHERMAL RESOURCE (COS/8/002)	ARNORSSON, STEFAN	IAEA-RU-0356	U
CUBA	MICROCOMPUTERS IN NUCLEAR EXPERIMENTS (CUB/0/002)	GRIGOROV, TODOR YOSIFOV	IAEA-RU-0443	U
	RECENT ASPECTS OF HIGH-RESOLUTION SOLID-STATE NUCLEAR MAGNETIC RESONANCE (CUB/0/003)	GRIMMER, ARND-REUDIGER	IAEA-RU-0338	F
	ESTABLISHMENT OF AN XRF LABORATORY (CUB/0/003)	KALINKA, GABOR	IAEA-RU-0417	U

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CUBA (cont'd.)	NUCLEAR TRAINING (CUB/0/003)	PAHOR, JOZE	IAEA-RU-0507	U
	POSTGRADUATE COURSE: RADIOISOTOPES IN BIOLOGY - PLANT ASPECTS (CUB/7/002)	CHARLWOOD, BARRY VICTOR	IAEA-RU-0474	U
	RADIOISOTOPES IN BIOLOGY (CUB/7/002)	BELCHER, ERNEST HUGH	IAEA-RU-0506	U
DOMINICAN REPUBLIC	DEVELOPMENT ACTIVITIES IN THE NUCLEAR SCIENCE LABORATORY (DOM/0/002)	GRAU MALONDA, AGUSTIN	IAEA-RU-0347	F
	POSITRON ANNIHILATION TECHNIQUES (DOM/0/002)	ABBE, JEAN-CHARLES	IAEA-RU-0381	F
ECUADOR	APPLIED NUCLEAR PHYSICS (ECU/1/004)	GANCEDO, JOSE RAMON	IAEA-RU-0476	F
	POST-PARTUM REPRODUCTIVE STATUS OF DAIRY CATTLE (ECU/5/007)	NACHREINER, RAYMOND FRANCIS	IAEA-RU-0373	F
	NUCLEAR TECHNIQUES IN ANIMAL HEALTH AND PRODUCTION (ECU/5/007)	RICHARDS, JOHN IRWYN	IAEA-RU-0588	U
	PESTICIDE RESIDUES IN FOOD, AGRICULTURE AND FISHERIES (ECU/5/008)	HASSAN, ALADIN	IAEA-RU-0354	F
	AGRICULTURAL CHEMICALS AND RESIDUES (ECU/5/008)	DAUTERMAN, WALTER CARL	IAEA-RU-0576	U
	AGRICULTURAL CHEMICALS AND RESIDUES (ECU/5/008)	HASSAN, ALADIN	IAEA-RU-0583	U
	EXPERT MISSION TO ECUADOR (ECU/5/009)	KIRDA, CEVAT	IAEA-RU-0334	F
	NUCLEAR TECHNIQUES IN AGRICULTURE (ECU/5/009)	KUMARASINGHE, K.	IAEA-RU-0461	U
	USE OF NUCLEAR TECHNIQUES IN AGRICULTURE (ECU/5/009)	SEBASTIANELLI, JOSE ALDO	IAEA-RU-0458	F
	NUCLEAR TECHNIQUES IN AGRICULTURE (ECU/5/009)	BROESHART, HANS	IAEA-RU-0562	F
EGYPT	DEVELOPMENT OF A TRIPLE-AXIS SPECTROMETER AT THE CAIRO REACTOR (EGY/1/013)	ROUDAUT, EDOUARD EUGENE	IAEA-RU-0505	U
	PREPARATION OF LYOPHILIZED RADIOPHARMACEUTICAL KITS (EGY/6/003)	NARASIMHAN, DANAIKENKOTTAI	IAEA-RU-0424	F
	NATIONAL CENTRE FOR RADIATION TECHNOLOGY PHASE II (EGY/8/006)	MILASINOVIC, ZORAN BRANKO	IAEA-RU-0584	F
	FUTURE DIRECTIONS FOR ISOTOPE HYDROLOGY RESEARCH IN EGYPT (EGY/8/007)	SIMPSON, HARRY JAMES JR.	IAEA-RU-0502	F
	INSTALLATION OF A TLD SYSTEM FOR PERSONNEL MONITORING AND RESEARCH PURPOSES (EGY/9/013)	WOEHNI, TOR	IAEA-RU-0415	F
	ENVIRONMENTAL IMPACT ASSESSMENT (EGY/9/014)	FROELICH, RICHARD WAGNER	IAEA-RU-0418	U
	ENVIRONMENTAL WORKSHOP (EGY/9/014)	LYNCH, OLIVER DEMOUY THOMAS JR	IAEA-RU-0420	F
	NUCLEAR POWER SAFETY (EGY/9/014)	ROGERS, LESTER R.	IAEA-RU-0419	F
	RADIATION TREATMENT OF SEWAGE SLUDGE IN EGYPT (EGY/9/019)	LESSEL, TIMM HEINER SUESS, ADALBERT	IAEA-RU-0468	U
EL SALVADOR	EVALUATION OF AGROCHEMICAL RESIDUES (ELS/0/004)	CONSTENLA UMANA, MANUEL ARTURO	IAEA-RU-0515	F
	ASSESSMENT OF RESOURCES NEEDED FOR RADIOACTIVE TRACER TESTS IN THE AHUACHAPAN THERMAL AREA (ELS/8/002)	MCCABE, WILLIAM JAMES	IAEA-RU-0379	F

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EL SALVADOR (cont'd.)	ENVIRONMENTAL ISOTOPE SURVEY IN THE AHUCHAPAN AND CHIPILAPA GEOTHERMAL FIELDS (ELS/8/002)	NUTI, SERGIO	IAEA-RU-0457	U
ETHIOPIA	PLAN OF ACTION FOR IMPLEMENTATION OF PROJECT (ETH/5/007)	OSCHMANN, STEFAN JOACHIM	IAEA-RU-0477	F
	NITROGEN FIXATION STUDIES (ETH/5/008)	AYOUB, ALI TAHA	IAEA-RU-0408	F
GHANA	PROJECT FOLLOW-UP MISSION 1986) (GHA/1/007)	HASLING, WILLY	IAEA-RU-0585	F
	ISOTOPE-AIDED FIELD STUDIES ON BIOLOGICAL NITROGEN FIXATION IN LEGUMES (GHA/5/008)	KUMARASINGHE, K.	IAEA-RU-0440	U
	REPORT ON TECHNICAL CO-OPERATION MISSION TO GHANA (GHA/5/008)	NOVAK, FRANTISEK JINDRISCH PAMPERL, WALTER	IAEA-RU-0463	F
GUATEMALA	X-RAY FLUORESCENCE IN MINERAL ANALYSIS (GUA/1/003)	KUMP, PETER	IAEA-RU-0503	U
	X-RAY FLUORESCENCE IN MINERAL ANALYSIS (GUA/1/003)	DOLNICAR, JOZE	IAEA-RU-0497	U
	DOSIMETER CALIBRATION (GUA/1/004)	SARAVI DE F. GIANOTTI, MARGARITA	IAEA-RU-0384	F
	USE OF RADIOISOTOPES FOR MEDICAL DIAGNOSIS (GUA/6/006)	PIYASENA, RIENZIL DODWELL	IAEA-RU-0413	U
INDONESIA	CALIBRATION SERVICES AT HOSPITALS (INS/1/009)	ENNOW, KLAUS ROSENKJAER	IAEA-RU-0352	U
	TLD APPLICATIONS (INS/1/009)	OBERHOFER, MARTIN	IAEA-RU-0351	U
	DEVELOPMENT OF PRODUCTION PROCEDURES AND RIA REAGENT PRODUCTION (INS/6/003)	KOSOWICZ, JERZY STANISLAW	IAEA-RU-0361	U
	DEVELOPMENT OF PRODUCTION PROCEDURES AND RIA REAGENT PRODUCTION (INS/2/010)	KOSOWICZ, JERZY STANISLAW	IAEA-RU-0360	U
	DEVELOPMENT OF URANIUM ORE PROCESSING (INS/3/007)	BHATNAGAR, DHARMA VEER	IAEA-RU-0350	U
	ORE RESERVE ESTIMATION (INS/3/008)	HANSEN, MAURICE VAUGHN	IAEA-RU-0349	U
	BOREHOLE LOGGING (INS/3/008)	FREY, DARRELL LEE	IAEA-RU-0520	U
	COMMISSIONING OF MASS SPECTROMETER (INS/8/011)	BATH, ADRIAN HUBERT	IAEA-RU-0358	F
	SPENT FUEL EXAMINATION (INS/8/012)	FUJINE, SHIGENORI	IAEA-RU-0575	F
	RADWASTE SYSTEM REVIEW (INS/9/006)	PATEK, PETER R.M.	IAEA-RU-0357	F
	QA AUDITING REQUIREMENTS (INS/9/007)	HANTKE, HANS-JUERGEN	IAEA-RU-0437	F
INTERREGIONAL	REACTOR MODERNIZATION (INT/0/038)	FILBY, ROYSTON HERBERT	IAEA-TA-2370	R
	TECHNICAL CO-OPERATION MISSION TO THE NATIONAL COUNCIL FOR SCIENTIFIC RESEARCH CENTRE IN ZAMBIA. (INT/0/038)	AJURIA GARZA, SERGIO	IAEA-RU-0464	F
	RADIATION PROTECTION ADVISORY TEAM (RAPAT) MISSION TO TURKEY (INT/0/038)	PLACER, ALEJANDRO SALO, LEILA ANNELI STROHAL, PETAR	IAEA-TA-2372	R
	REPORT ON PRE-PROGRAMMING MISSION (INT/0/038)	HARDARSON, GUDNI	IAEA-RU-0481	U
	DEVELOPMENT OF TECHNOLOGY FOR RECOVERING MOLYBDENUM-99 (INT/0/038)	MARQUES, ROBERTO OSCAR SAMEH, A.H.A. BOYD, REX EMMANUEL	IAEA-RU-0560	U

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INTERREGIONAL (cont'd.)	PREPARATION OF REGULATIONS (INT/9/054)	CHIN, PING-CHUEN	IAEA-RU-0393	F
	RADIATION PROTECTION ADVISORY TEAM (RAPAT) MISSION TO PORTUGAL (INT/9/055)	PLACER, ALEJANDRO STROHAL, PETAR SZTANYIK, LASZLO B.	IAEA-TA-2380	R
	RESEARCH REACTOR SAFETY (INT/9/065)	FLAKUS, FRANZ-NIKOLAUS CHRYSOCHOIDES, NICHOLAS GREGORY	IAEA-TA-2326	R
	NUCLEAR SAFETY AND RADIATION PROTECTION MISSION TO THE TUN ISMAIL ATOMIC RESEARCH CENTRE (PUSPATI) (INT/9/065)	CHRYSOCHOIDES, NICHOLAS GREGORY UTTING, RODERICK	IAEA-TA-2371	R
JAMAICA	PROCESSING OF GEOCHEMICAL DATA (JAM/4/002)	LIMIC, NEDZAD	IAEA-RU-0499	U
KENYA	FIELD EVALUATION REVIEW ON KEN/0/003, URT/1/003 AND ZAM/0/005 (KEN/0/003)	KNOLL, GLEN FREDERICK KAY, DAVID	IAEA-FER-86/01	R
	ASSESSMENT OF RADIATION PROTECTION CONDITIONS (KEN/9/003)	HASLING, WILLY	IAEA-RU-0353	F
KOREA, R.	CALIBRATION FACILITY (PLANNING) (ROK/1/007)	SMITH, JAMES RICHARD	IAEA-RU-0447	F
	DEGRADATION OF PESTICIDES IN SOILS (ROK/5/021)	WHEELER, WILLIS BOLY	IAEA-RU-0526	F
	ANIMAL NUTRITION (ROK/5/022)	AMES, N. KENT	IAEA-RU-0566	F
	NUTRITIVE PHYSIOLOGICAL STUDIES (ROK/5/024)	DOUDS, DAVID	IAEA-RU-0569	F
	OPERATION AND MAINTENANCE OF A MEDICAL CYCLOTRON (ROK/8/005)	SCHWEICKERT, HERMANN	IAEA-RU-0568	F
MADAGASCAR	PRE-FEASIBILITY STUDY OF THE URANOTHORIANITE DEPOSIT AT FORT DAUPHIN (MAG/3/004)	KOCH, JOSEF HERMANN	IAEA-RU-0421	F
	ASSESSMENT OF TECHNOLOGICAL AND ECONOMIC REQUIREMENTS (MAG/4/002)	MURANAKA, RICHARD GEORGE LEVAI, FERENC	IAEA-RU-0391	U
MALAYSIA	REVIEW OF STUDY REPORT ON NUCLEAR POWER PLANNING (MAL/0/007)	ALBISU, FRANCISCO MARQUES DE SOUZA, JAIR ALBO SKJOELDEBRAND, ROBERT	IAEA-RU-0365	F
	PRODUCTION OF SEALED RADIOACTIVE SOURCES (MAL/2/002)	VORMUM, GUENTHER KARL	IAEA-RU-0364	F
	TRIGA MARK II COMMISSIONING (MAL/4/003)	DUFF, ANTHONY THOMAS	IAEA-RU-0532	U
	ANIMAL PHYSIOLOGY (CATTLE AND BUFFALOES) (MAL/5/005)	ROBERTSHAW, DAVID	IAEA-RU-0362	U
	EVALUATION OF FOOD IRRADIATION PROGRAMME (MAL/5/011)	KAWASHIMA, KOJI	IAEA-RU-0544	F
	QUALITY CONTROL (MAL/6/011)	BURRIN, JACQUELINE MARY	IAEA-RU-0547	F
	DEVELOPMENT OF RESEARCH AND TEACHING PROGRAMME (MAL/7/002)	YATVIN, MILTON BRIAN	IAEA-RU-0363	U
	RADIATION TECHNOLOGY (MAL/8/004)	MAJALI, ASHOK BHIMAJI SHRI	IAEA-RU-0366	F
MALI	REPORT ON A FEASIBILITY STUDY MISSION ON RADIATION STERILIZATION OF MEDICAL SUPPLIES (MLI/7/002)	MUKHERJEE, RAMENDRA	IAEA-RU-0422	U
MAURITIUS	A REVIEW OF THE FRUIT FLY PROBLEM IN MAURITIUS (MAR/5/005)	HOOPER, GORDON HARRY SYDNEY	IAEA-RU-0508	F
	NUCLEAR MEDICINE (MAR/6/002)	SHAH, DAMAYANTI HARILAL	IAEA-RU-0511	F
MEXICO	NUCLEAR ELECTRONICS - PREAMPLIFIERS AND AMPLIFIERS (MEX/0/008)	MANFREDI, PIER FRANCESCO	IAEA-RU-0367	F

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MEXICO (cont'd.)	DEVELOPMENT OF PREASSEMBLED 99-MO GENERATORS (MEX/2/010)	MUENZE, RUDOLF	IAEA-RU-0410	U
	EVALUATION OF CORROSION IN 6061-T6 ALUMINIUM VESSEL WALL (MEX/4/033)	THURGOOD, BRIAN	IAEA-RU-0340	F
	RIA FOR PROGESTERONE IN BLOOD AND MILK (MEX/5/012)	ROBERTSON, HAMISH ALEXANDER	IAEA-RU-0383	F
	USE OF RIA TECHNIQUES IN ANIMAL REPRODUCTION (MEX/5/012)	TAYLOR RIEGER, RICHARD	IAEA-RU-0432	F
	HIGH-ENERGY ELECTRONIC TREATMENT OF POTABLE WATER (MEX/8/012)	DANFORTH, JOHN LORING	IAEA-RU-0339	F
	DETERMINATION OF SEDIMENTATION RATES IN LAKES (MEX/8/014)	SMITH-BRIGGS, JANE LESLEY	IAEA-RU-0385	F
	SECURITY EVALUATION OF NUCLEAR CENTRES (MEX/9/020)	STONE, GERALD PAUL	IAEA-RU-0453	F
	QUALITY ASSURANCE FOR NUCLEAR POWER PLANTS (MEX/9/022)	NAPUDA, GEORGE	IAEA-RU-0375	F
	EVALUATION OF FINAL SAFETY ANALYSIS REPORT (MEX/9/022)	VILLALVA, IGNACIO	IAEA-RU-0455	F
	CONTINUING GEOLOGIC AND TECTONIC REVIEW OF THE FINAL SAFETY ANALYSIS REPORT IN LAGUNA VERDE NUCLEAR POWER PLANT (MEX/9/022)	SCOTT, JOHN DOUGLAS	IAEA-RU-0486	U
	SPECIFICATIONS FOR DYNAMIC TESTING LABORATORY (MEX/9/027)	NINK, AXEL	IAEA-RU-0559	U
	ENVIRONMENTAL QUALIFICATION (MEX/9/027)	SIEGLER, WILLI	IAEA-RU-0578	F
	RADWASTE ON-SITE STORAGE FACILITY (MEX/9/029)	OYEN, LARRY C.	IAEA-RU-0561	U
	LAGUNA VERDE NUCLEAR POWER PLANT PROBABILISTIC SAFETY ANALYSIS PROJECT (MEX/9/031)	PAPAZOGLOU, IOANNIS A.	IAEA-RU-0548	U
	NUCLEAR POWER PLANT SAFETY EVALUATION (MEX/9/032)	VOGT-LOWELL, RENE JULIAN	IAEA-RU-0514	U
	RADIATION PROTECTION PROGRAMME FOR THE LAGUNA VERDE NUCLEAR POWER PLANT (MEX/9/032)	CHANEY, HAROLD DEAN	IAEA-RU-0556	U
MOROCCO	NUCLEAR ENERGY RESEARCH CENTRE (MOR/0/003)	ABU BAKR, ABDEL RAHMAN BOECK, HELMUTH DIMIC, VIKTOR AND OTHERS	IAEA-RU-0472	U
	RECOMMENDATIONS RELATED TO SAFETY FOR THE SITE OF THE MOROCCAN NUCLEAR RESEARCH CENTRE (CNESTEN) (MOR/0/003)	IANSITI, ENZO GURPINAR, AYBARS	IAEA-RU-0517	F
	INSTALLATION OF MICROCOMPUTER SYSTEM AND TRAINING ON GEOLOGICAL AND MINERAL DATA TREATMENT (MOR/3/007)	GUERIN, ROLAND ADRIEN	IAEA-RU-0522	F
	REVIEW OF FEASIBILITY STUDY (MOR/4/007)	CSIK, BELA JOSE	IAEA-RU-0414	F
	RECOMMENDATIONS RELATED TO NPP SITING ACTIVITIES (MOR/4/007)	GURPINAR, AYBARS	IAEA-RU-0581	F
	ADVISORY MISSION (MOR/5/013)	KALININ, KIR VASILIEVICH	IAEA-RU-0657	U
	NUCLEAR MEDICINE (MOR/6/008)	ZIADA, GABER ALY MUHAMMAD	IAEA-RU-0368	F
	COMMISSIONING OF A GAMMA CAMERA (MOR/6/008)	ZIADA, GABER ALY MUHAMMAD	IAEA-RU-0392	F

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NIGER	NUCLEAR ANALYTICAL TECHNIQUES IN NIGER'S DEVELOPMENT (NER/0/003)	PIANAROSA, PIERO	IAEA-RU-0509	F
	SAMPLING CAMPAIGN IN THE EAST OF NIGER (NER/8/003)	ARANYOSSY, JEAN FRANCOIS	IAEA-RU-0573	F
	EVALUATION OF THE ESTABLISHMENT OF AN INSPECTORATE AT ARLIT (NER/9/005)	AHMED, JASIMUDDIN	IAEA-RU-0565	U
PAKISTAN	REGULATIONS AND BIOLOGICAL ASPECTS (PAK/9/007)	DAW, HUSSEIN	IAEA-RU-0589	F
PANAMA	LABORATORY TECHNIQUES AND QUALITY CONTROL (PAN/2/003)	CANELLAS, CARLOS OSCAR	IAEA-RU-0411	U
	NUCLEAR ANALYTICAL TECHNIQUES (PAN/2/004)	BRAUN, TIBOR	IAEA-RU-0492	U
	NUCLEAR MEDICINE (PAN/6/005)	MITTA, ALDO EMILIO ANTONIO	IAEA-RU-0454	F
PARAGUAY	LOW-ENERGY ACCELERATOR (PAR/1/002)	VAN DER LEUN, COR SCHWEIKERT, EMILE A. DOLNICAR, JOZE	IAEA-RU-0370	F
	THERMOLUMINESCENCE DOSIMETRY (PAR/1/002)	VANA, NORBERT	IAEA-RU-0372	F
	X-RAY FLUORESCENCE ANALYSIS (PAR/1/002)	KUMP, PETER	IAEA-RU-0496	U
	MOESSBAUER SPECTROMETRY (PAR/1/002)	GANCEDO, JOSE RAMON	IAEA-RU-0563	F
	ASSISTANCE TO THE UNIVERSITY OF ASUNCION FOR THE INSTALLATION OF A LABORATORY (PAR/8/004)	BAEZ, JUAN NICOLAS	IAEA-RU-0564	F
PERU	NUCLEAR SCIENCE TRAINING (PER/0/015)	SINDERMAN, JORGE EDUARDO	IAEA-RU-0500	F
	NUCLEAR SCIENCE TRAINING: RADIOLOGICAL PROTECTION LECTURE (PER/0/015)	BIAGGIO, ALFREDO LUCIO	IAEA-RU-0539	U
	NUCLEAR ENERGY PROGRAMME MONITORING AND SUPPORT (PER/0/016)	ALEGRIA, JOSE LUIS	IAEA-RU-0541	U
	INSTALLATION OF NUCLEAR INSTRUMENTS AT IPEN (PER/1/007)	VAENSKAE, LAURI ILMARI	IAEA-RU-0382	F
	FAST NEUTRON ACTIVATION ANALYSIS (PER/1/007)	ZILLIACUS, RIITA HELENA	IAEA-RU-0480	F
	PROCESSING OF URANIUM MINERALS BY CONVENTIONAL METHODS (PER/3/011)	VALENTINUZZI, OMAR	IAEA/UNDP-PER/81/004-13	R
	DETERMINATION OF U, TH, RA AND K IN ROCKS BY LABORATORY GAMMA-RAY SPECTROMETRY (PER/3/011)	MATOLIN, MILAN	IAEA/UNDP-PER/81/004-16	R
	NUCLEAR RAW MATERIALS PROPECTION AND EXPLORATION (PER/3/012)	BELLUCO, ALBERTO ESTEBAN	IAEA-RU-0438	F
	REACTOR OPERATION (PER/4/009)	ELOE, SANDOR	IAEA-RU-0465	F
	MEDFLY QUALITY CONTROL PROCEDURES (PER/5/012)	OROZCO DAVILA, DINA	IAEA-RU-0434	F
	MEDITERRANEAN MEDFLY CONTROL (PER/5/012)	PERDOMO EHLERS, ALBERTO JAVIER RHODE, ROBERT HOMER	IAEA-RU-0607	U
	FIELD OF SOIL FERTILITY AND CROP PRODUCTION (PER/5/014)	HARDARSON, GUDNI	IAEA-RU-0479	F
	NUCLEAR TECHNIQUES IN AGRICULTURE (PER/5/014)	BROESHART, HANS	IAEA-RU-0545	F
	FEASIBILITY STUDY (ORE PROCESSING KOPRUBASI) (PER/6/009)	MCGINLEY, FRANK EMMETT	IAEA-TA-2367	R
	QUALITY CONTROL OF IN-VIVO AND IN-VITRO PROCEDURES (PER/6/009)	DIAS NETO, ALIPIO LUIZ	IAEA-RU-0435	F
	REVIEW OF PROGRAMME II: BIOMEDICAL APPLICATIONS (PER/6/010)	BELCHER, ERNEST HUGH	IAEA/UNDP-PER/81/004-14	R

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PERU (cont'd.)	HYDROLOGICAL STUDY OF THE TACNA BASIN (PER/8/005)	ARANYOSSY, JEAN FRANCOIS	IAEA-RU-0606	U
	REPORT ON EXPERT MISSION TO PERU (PER/9/011)	VAN ERP, JAN BAREND HARTIG, JOHN JOSEPH	IAEA-RU-0341	F
	RADIOLOGICAL PROTECTION AND SAFETY ASPECTS (PER/9/012)	CANCIO, DAVID	IAEA-RU-0348	F
	GUIDANCE FOR THE DEVELOPMENT OF BIOLOGICAL DOSIMETRY (PER/9/014)	LLOYD, DAVID CHARLES	IAEA-RU-0416	U
PHILIPPINES	QUALITY ASSURANCE REGULATORY INSPECTION (PHI/0/005)	ALBERT, WILLIAM GEORGE	IAEA/UNDP-PHI/80/007-02	R
	HIGH LEVEL DOSE MEASUREMENTS (PHI/1/012)	STENGER, VILMOS	IAEA-RU-0546	F
	PESTICIDE CHEMISTRY (PHI/5/017)	LAVY, TERRY LEE	IAEA-RU-0528	F
PORTUGAL	CONSTRUCTION OF CIX PILOT PLANT (POR/3/006)	GASOS, PABLO	IAEA-TA-2364	R
	REVISION OF SPECIFICATIONS (POR/8/002)	DE LA CRUZ CASTILLO, FELIPE	IAEA-TA-2345	R
REGIONAL ASIA & PACIFIC	SETTING-UP A NATIONAL PROGRAMME (RAS/6/004)	SOKOLE-BUSEMANN, ELLINOR	IAEA-RU-0529	U
REGIONAL LATIN AMERICA	A FIELD EVALUATION REVIEW OF THE REGIONAL NDT PROJECT IN LATIN AMERICA AND THE CARRIBEAN (RLA/8/005)	BARON, JOHN GILMOUR, ROBERT STIRLING VON BERINGE, MARIA	IAEA-FER-86/02	R
SENEGAL	USE OF RADIATION CHEMISTRY LABORATORY (SEN/1/003)	SERVIAN, JORGE LUIS	IAEA-RU-0342	F
	INSTALLATION AND USE OF X-RAY FLUORESCENCE SYSTEM (SEN/1/003)	CARRARO, GIUSEPPE	IAEA-RU-0343	F
	UPGRADING OF RIA AND NUCLEAR MEDICINE IMAGING (SEN/6/008)	BARBINA, VALERIO	IAEA-RU-0523	F
SRI LANKA	RADIOPHARMACEUTICAL PREPARATIONS (SRL/2/004)	WARWICK, ANTHONY	IAEA-RU-0570	F
	DEVELOPMENT OF GENETIC METHODS (SRL/5/021)	SEAWRIGHT, JACK ARLYN	IAEA-RU-0590	U
	NUCLEAR MEDICINE: CLINICAL ASPECTS (SRL/6/009)	GANATRA, RAMANIK D.	IAEA-RU-0530	U
	ORGAN IMAGING (SRL/6/010)	VAN HERK, GERARD	IAEA-RU-0395	F
	SCREENING OF BLOOD FOR VIRAL HEPATITIS (SRL/6/012)	BEAL, ROBERT WILLIAM	IAEA-RU-0394	F
	STAFF TRAINING AND ADVICE (SRL/6/013)	PIYASENA, RIENZIL DODWELL	IAEA-RU-0396	F
	SET-UP, MANAGEMENT AND OPERATION OF TISSUE BANK: SURGICAL ASPECTS OF RADIATION STERILIZATION FOR TISSUE BANK (SRL/7/002)	PHILLIPS, GLYN OWEN TRIANTAFYLLOU, NICHOLAS	IAEA-RU-0484	U
	SEDIMENT EROSION STUDIES USING CS-137 (SRL/8/009)	CAMPBELL, BRYAN LEWIS	IAEA-RU-0531	U
	NDT TRAINING (SRL/8/011)	WAMORKAR, RATNAKAR RAJARAM	IAEA-RU-0485	F
SYRIAN A.R.	LOW-LEVEL COUNTING (SYR/1/002)	SANKAR DAS, MANNIKATH	IAEA-TA-2375	R
	URANIUM EXPLORATION TECHNIQUES (SYR/3/002)	TAYLOR, JAMES	IAEA-TA-2384	R
	PREPARATION FOR AN AIRBORNE GAMMA-RAY SURVEY (SYR/3/002)	WALLIN, BJARNE LOEVBORG, LEIF	IAEA-RU-0594	F

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SYRIAN A.R. (cont'd.)	REVIEW OF TECHNICAL SPECIFICATIONS (SYR/4/002)	BYSZEWSKI, WITOLD GYIMESI, ZOLTAN STRUPCZEWSKI, ANDREJ LUDWIK AND OTHERS	IAEA-TA-2385	R
	NATIONAL TRAINING COURSE IN NUCLEAR ELECTRONICS (SYR/4/003)	AKDURAK, SALIH SERDAR REGGOUG, ABDERRAHMANE	IAEA-RU-0596	U
	REVIEW OF PROJECT ACTIVITIES (SYR/5/009)	KUMARASINGHE, K.	IAEA-TA-2376	R
	PROGRAMMING OF ACTIVITIES (SYR/9/005)	ALONSO SANTOS, AGUSTIN	IAEA-TA-2369	R
THAILAND	HIGH-LEVEL DOSE MEASUREMENTS (THA/1/004)	MCLAUGHLIN, WILLIAM LOWNDES	IAEA-RU-0592	F
	RADIOCHEMISTRY AND RADIATION CHEMISTRY (THA/1/005)	ADLOFF, JEAN-PIERRE	IAEA-RU-0427	F
	FAST PULSING OF BEAM (THA/1/005)	TAKAHASHI, AKITO	IAEA-RU-0536	U
	NEUTRON GENERATOR UTILIZATION (THA/1/005)	CSIKAI, GYULA J.	IAEA-RU-0535	U
	DOSIMETRY (THA/1/005)	LAWSON, ROBERT CRAWFORD	IAEA-RU-0534	U
	NEUTRON GENERATOR UTILIZATION (THA/1/005)	CSIKAI, GYULA J.	IAEA-RU-0543	U
	GEOCHEMICAL ANALYSIS OF URANIUM (THA/3/003)	BASSET, MARCEL	IAEA-RU-0524	U
	RIA PROGRAMMING (THA/4/008)	PIYASENA, RIENZIL DODWELL	IAEA-RU-0533	U
	COMMERCIAL FEASIBILITY STUDIES (THA/5/029)	DOLLAR, ALEXANDER MELVILLE	IAEA-RU-0554	U
	SETTING UP OF RIA LABORATORY (THA/6/013)	SWANSON, ROBERT J.	IAEA-RU-0498	F
	PROGRAMME DEVELOPMENT (THA/6/016)	ADAMS, RALPH M.	IAEA-RU-0488	F
	PROGRAMME DEVELOPMENT (THA/6/016)	GERMANN, DONALD ROSS	IAEA-RU-0567	F
	RADIATION PROTECTION IN NUCLEAR MEDICINE (THA/6/017)	LEVAN, HOA JOHN	IAEA-RU-0489	F
	INTRODUCE CLINICAL TECHNIQUES (THA/6/018)	GERMANN, DONALD ROSS	IAEA-RU-0346	F
	ACCEPTANCE TEST COMPUTER FOR NUCLEAR MEDICINE (THA/6/018)	ADAMS, RALPH M.	IAEA-RU-0487	F
TUNISIA	MISSION ON SITING STUDIES (TUN/0/003)	GIULIANI, PIETRO GURPINAR, AYBARS	IAEA-RU-0401	F
	MEDITERRANEAN FRUIT FLY REVIEW MISSION (TUN/5/008)	HARRIS, ERNEST JAMES	IAEA-RU-0423	U
	ASSESSMENT OF THE RADIOLOGICAL SITUATION IN TUNISIA AFTER CHERNOBYL (TUN/9/005)	RANCON, DANIEL	IAEA-RU-0571	F
TURKEY	MTA AIRBORNE RADIOMETRIC SURVEY PLANNING (TUR/3/006)	BENNETT, JAMES ERNEST	IAEA-TA-2368	R
	ORE RESERVES AND MINEABILITY (KOPRUBASI DEPOSITS) (TUR/3/006)	HANSEN, MAURICE VAUGHN	IAEA-TA-2373	R
	WORKSHOP ON URANIUM ORE RESERVE ESTIMATION (TUR/3/006)	HANSEN, MAURICE VAUGHN	IAEA-RU-0598	F
	SITE EVALUATION REVIEW (TUR/9/005)	GURPINAR, AYBARS	IAEA-TA-2363	R
	REVIEW OF GEOLOGICAL AND SEISMOLOGICAL ASPECTS OF AKKUYU SITE (TUR/9/005)	GURPINAR, AYBARS SERVA, LEONELLO	IAEA-TA-2366	R

Recipient	Subject and project code	Author(s)	Reference no.	Status [a]
TURKEY (cont'd.)	REVIEW OF CROSS HOLE SURVEY AND PROGRESS OF MICROEARTHQUAKE MONITORING, AKKUYU SITE (TUR/9/005)	GURPINAR, AYBARS	IAEA-TA-2386	R
	IMPLEMENTATION OF A LOW-LEVEL WASTE MANAGEMENT SYSTEM (TUR/9/007)	SCHUBERT, GUENTHER	IAEA-TA-2388	R
U.R. TANZANIA	INSTALLATION AND TESTING OF TUBE-EXCITED X-RAY FLUORESCENCE ANALYSIS SYSTEM (URT/1/003)	KIS-VARGA, MIKLOS	IAEA-RU-0591	F
	FOLLOW-UP MISSION ON THE APPLICATION OF RADIONUCLIDES TO THE STUDY OF ACARICIDE RESIDUES IN MEAT AND MILK (URT/5/006)	LORD, KENNETH ALAN	IAEA-RU-0577	F
	ASSESSMENT OF PROGRESS MADE DURING TRYPANOSOMIASIS/TSETSE SURVEY ON THE UNUGA ISLAND OF ZANZIBAR AND OF PRESENT SITUATION IN GLOSSINA AUSTONI REARING AT TANGA (URT/5/007)	VLOEDT, ANDRE VAN DER	IAEA-RU-0471	U
	METHODS FOR SURVIVING TSETSE FLY ON ZANZIBAR (URT/5/007)	HALL, MARTIN JONATHAN RICHARD	IAEA-RU-0586	F
	PROPOSED WORK PLAN FOR IMPLEMENTATION OF PROJECT 'LIVESTOCK AND HEALTH' (URT/5/008)	OSCHMANN, STEFAN JOACHIM	IAEA-RU-0478	F
	TRAVEL REPORT ON MISSION TO ARUSHA (URT/9/002)	HASLING, WILLY	IAEA-RU-0406	U
URUGUAY	ANIMAL NUTRITION RESEARCH RECOMMENDATIONS FOR URUGUAY (URU/5/013)	MCDOWELL, LEE R.	IAEA-RU-0587	F
	ASSESSMENT OF SOIL EROSION LOSSES (URU/5/015)	KIRDA, CEVAT	IAEA-RU-0459	U
VENEZUELA	PLANNING OF NUCLEAR ENERGY DEVELOPMENT (VEN/0/006)	ALEGRIA, JOSE LUIS	IAEA-RU-0537	U
	PLANT BREEDING (VEN/5/005)	MURTY, BHYRAVABHOTLA	IAEA-RU-0444	U
	NUCLEAR TECHNIQUES IN SEDIMENTOLOGICAL STUDIES (VEN/8/007)	CAILLOT, ALAIN ROGER PIERRE	IAEA-RU-0359	U
VIET NAM	CARBON-14 LABORATORY (VIE/8/003)	ARANYOSSY, JEAN FRANCOIS	IAEA-RU-0527	U
YUGOSLAVIA	ADVICE FOR LICENSING PROCESS (YUG/4/021)	ALONSO SANTOS, AGUSTIN	IAEA-RU-0599	U
	ANALYSIS OF KRSKO NUCLEAR POWER PLANT TRANSIENTS BY MEANS OF RELAP-5 MOD-1 (YUG/9/018)	STUBBE, ELIE JOZEF	IAEA-TA-2377	R
	APPLICATION OF DRUFAN01/MOD 2 CODE (YUG/9/018)	AUSTREGESILO FILHO, HENRIQUE	IAEA-RU-0595	F
	APPLICATION OF ALMOD CODE FOR 2-LOOP CASES (YUG/9/018)	CAMARGO MUNHOZ, CLAUDIO TERCIO	IAEA-RU-0597	F
	REACTOR SAFETY STUDIES - USE OF ALMOD CODE (YUG/9/018)	HOELD, ALOIS	IAEA-RU-0604	F
ZAIRE	ASSESSMENT OF THE SAFETY ASPECTS OF THE RESEARCH REACTOR (ZAI/9/004)	BOECK, HELMUTH	IAEA-RU-0574	F
ZAMBIA	NUCLEAR EQUIPMENT MAINTENANCE (ZAM/4/002)	GARDOS, MIKLOS	IAEA-RU-0475	F
	PROPAGATION OF TROPICAL FRUIT TREES (ZAM/5/014)	READ, PAUL E.	IAEA-RU-0579	U
	FATE OF PESTICIDES (ZAM/5/015)	BIGLEY, WALTER STEPHEN	IAEA-RU-0605	U

[a] F = Conclusions and recommendations contained in unpublished report forwarded to recipient Member State; R = Restricted distribution; U = Unpublished report forwarded to recipient Member State.

ANNEX IV

VOLUNTARY CONTRIBUTIONS PLEDGED AND PAID TO THE TECHNICAL ASSISTANCE AND CO-OPERATION FUND FOR 1986
(as at 31 December 1986)

Member State	Base rate %	Share of $30.0 million target for voluntary contributions for 1986 using base rate*	Pledged	Paid
Afghanistan	0.01	3,000	0	0
Albania	0.01	3,000	3,000	0
Algeria	0.13	39,000	39,000	39,000
Argentina	0.70	210,000	105,000	0
Australia	1.55	465,000	465,000	465,000
Austria	0.74	222,000	222,000	222,000
Bangladesh	0.03	9,000	0	0
Belgium	1.27	381,000	95,238	0
Bolivia	0.01	3,000	0	0
Brazil	1.37	411,000	243,200	0
Bulgaria	0.18	54,000	54,000	50,965
Burma	0.01	3,000	3,000	0
Byelorussian SSR	0.36	108,000	134,503	134,503
Cameroon	0.01	3,000	0	0
Canada	3.05	915,000	915,000	915,000
Chile	0.07	21,000	21,000	21,000
China	0.87	261,000	261,000	261,000
Colombia	0.11	33,000	33,000	0
Costa Rica	0.02	6,000	0	0
Côte d'Ivoire	0.03	9,000	0	0
Cuba	0.09	27,000	27,000	24,497
Cyprus	0.01	3,000	2,600	2,600
Czechoslovakia	0.75	225,000	225,000	225,000
Dem. Kampuchea	0.01	3,000	0	0
Dem. P.R. Korea	0.05	15,000	15,000	15,000
Denmark	0.74	222,000	222,000	222,000
Dominican Republic	0.03	9,000	0	0
Ecuador	0.02	6,000	6,000	800
Egypt	0.07	21,000	21,000	21,000
El Salvador	0.01	3,000	0	0
Ethiopia	0.01	3,000	0	0
Finland	0.47	141,000	141,000	141,000
France	6.44	1,932,000	1,932,000	1,932,000
Gabon	0.02	6,000	0	0
German D.R.	1.37	411,000	411,000	411,000
Germany, F.R.	8.45	2,535,000	2,535,000	2,535,000
Ghana	0.02	6,000	6,000	0
Greece	0.39	117,000	117,000	117,000
Guatemala	0.02	6,000	0	0
Haiti	0.01	3,000	0	0
Holy See	0.01	3,000	1,000	1,000
Hungary	0.23	69,000	79,611	79,611
Iceland	0.03	9,000	9,000	9,000
India	0.36	108,000	108,000	108,000
Indonesia	0.13	39,000	39,000	39,000

* As recommended in GC(V)/RES/100 and amended in GC(XV)/RES/286.

Member State	Base rate %	Share of $30.0 million target for voluntary contributions for 1986 using base rate	Pledged	Paid
Iran, I.R.	0.57	171,000	0	0
Iraq	0.12	36,000	36,000	0
Ireland	0.18	54,000	30,000	30,000
Israel	0.23	69,000	0	0
Italy	3.70	1,110,000	514,470	514,470
Jamaica	0.02	6,000	6,000	0
Japan	10.21	3,063,000	3,063,000	3,063,000
Jordan	0.01	3,000	3,000	0
Kenya	0.01	3,000	0	0
Korea, R.	0.18	54,000	54,000	0
Kuwait	0.25	75,000	0	0
Lebanon	0.02	6,000	0	0
Liberia	0.01	3,000	0	0
Libyan A.J.	0.26	78,000	0	0
Liechtenstein	0.01	3,000	3,000	3,000
Luxembourg	0.06	18,000	0	0
Madagascar	0.01	3,000	3,000	3,000
Malaysia	0.09	27,000	27,000	27,000
Mali	0.01	3,000	0	0
Mauritius	0.01	3,000	0	0
Mexico	0.87	261,000	0	0
Monaco	0.01	3,000	0	0
Mongolia	0.01	3,000	3,000	3,000
Morocco	0.05	15,000	0	0
Namibia	0.00	0	0	0
Netherlands	1.76	528,000	528,000	247,130
New Zealand	0.26	78,000	0	0
Nicaragua	0.01	3,000	0	0
Niger	0.01	3,000	0	0
Nigeria	0.19	57,000	57,000	0
Norway	0.50	150,000	150,000	150,000
Pakistan	0.06	18,000	18,000	18,000
Panama	0.02	6,000	5,200	2,600
Paraguay	0.01	3,000	0	0
Peru	0.07	21,000	0	0
Philippines	0.09	27,000	6,924	6,924
Poland	0.71	213,000	203,593	203,593
Portugal	0.18	54,000	54,000	54,000
Qatar	0.03	9,000	0	0
Romania	0.19	57,000	0	0
Saudi Arabia	0.85	255,000	0	0
Senegal	0.01	3,000	0	0
Sierra Leone	0.01	3,000	0	0
Singapore	0.09	27,000	0	0
South Africa	0.40	120,000	0	0
Spain	1.91	573,000	30,000	30,000
Sri Lanka	0.01	3,000	3,000	3,000
Sudan	0.01	3,000	0	0
Sweden	1.30	390,000	390,000	390,000
Switzerland	1.09	327,000	327,000	327,000
Syrian A.R.	0.03	9,000	0	0
Thailand	0.08	24,000	24,000	24,000
Tunisia	0.03	9,000	0	0
Turkey	0.32	96,000	96,000	96,000
Uganda	0.01	3,000	0	0

Member State	Base rate %	Share of $30.0 million target for voluntary contributions for 1986 using base rate	Pledged	Paid
Ukrainian SSR	1.30	390,000	458,791	458,791
USSR	10.43	3,129,000	3,559,097	3,559,097
U.A. Emirates	0.16	48,000	0	0
UK	4.62	1,386,000	1,386,000	1,386,000
U.R. Tanzania	0.01	3,000	3,000	2,600
USA	25.00	7,500,000	7,008,250	0
Uruguay	0.04	12,000	0	0
Venezuela	0.54	162,000	40,000	40,000
Viet Nam	0.02	6,000	438	0
Yugoslavia	0.45	135,000	135,000	135,000
Zaire	0.01	3,000	0	0
Zambia	0.01	3,000	3,000	0
Zimbabwe*	0.02	6,000	0	0
TOTAL	100.02	30,006,000	26,719,915	18,769,181

* Zimbabwe became a Member of the Agency on 1 August 1986.

ANNEX V

COST-FREE FELLOWSHIPS OFFERED AND AWARDED: 1986

Donor	Number of fellowships offered	Number of man-months offered	Number of fellowships awarded [a/]	Number of man-months awarded [a/]
Argentina	6	72	-	-
Austria	1	12	1	6
Belgium	3	12	2	12
Bulgaria	2	12	-	-
Czechoslovakia	9 [b/]	-	-	-
Denmark	5	60	1	3
France	-	50	4	22
Germany, F.R.	-	105	14	106
Hungary	4	48	3	36
India	10	-	4	10
Israel	-	45	-	-
Italy	25	200	3	21
Japan	5	45	-	-
Mexico	2	24	-	-
Netherlands	8	-	3	6
Pakistan	6	-	-	-
Philippines	3	-	-	-
Poland	10	-	-	-
Spain	5	60	3	17
Thailand	2	-	-	-
United Kingdom	- [c/]	-	7	47
United States of America	- [c/]	-	47	422
Yugoslavia	-	22	-	-

[a/] Awards less rejections and withdrawals as at 31 December 1986.

[b/] Includes five long-term fellowships of up to 60 man-months each.

[c/] A specific amount of money was made available rather than a given number of fellowships.

ANNEX VI

UNDP PROJECTS UNDER IMPLEMENTATION
(in thousands of dollars)

Recipient	Project title and code	Total amount approved	Prior to 1986	Approved budgets 1986	1987	1988	1989	1990
A. Projects executed by the IAEA								
Argentina	Nuclear engineering, ARG/78/020	3,474	2,378	549	393	154	-	-
Chile	Uranium prospection - Phase II, CHI/79/001	459	418	41	-	-	-	-
Costa Rica	Strengthening national capacity for mineral prospection, COS/83/T02 (UNFSSTD)	617	426	191	-	-	-	-
China	Manpower development for nuclear power programme, CPR/85/085	1,660	-	108	1,067	485	-	-
Cuba	Introduction of nuclear techniques into the national economy, CUB/77/001	1,621	1,601	20	-	-	-	-
Egypt	National Centre for Radiation Technology - Phase II, EGY/78/011	1,096	558	94	399	45	-	-
Ghana	Teaching applied nuclear physics, GHA/85/015	79	-	40	39	-	-	-
Hungary	Establishment of an automated radiation laboratory, HUN/82/002	73	62	11	-	-	-	-
Indonesia	Application of isotopes and radiation to increasing agricultural production, INS/78/074	1,642	1,199	270	173	-	-	-
Iran, I.R.	Pilot demonstration plant for radio-sterilization and other applications of radiation technology, IRA/82/003	1,559	1,251	308	-	-	-	-
Korea, R.	Isotopes and radiation in agricultural research, ROK/84/003	595	20	231	204	140	-	-
Madagascar	Uranium prospection and evaluation, MAG/77/012	1,444	1,443	1	-	-	-	-
Peru	Nuclear energy, PER/81/004	1,276	1,276	-	-	-	-	-
Philippines	Philippine nuclear manpower development programme, PHI/80/007	1,108	897	211	-	-	-	-
Romania	Assistance for nuclear power stations, ROM/82/001	706	596	56	54	-	-	-
Thailand	Improving food and agricultural production, THA/85/004	1,348	-	483	442	262	94	67
Yugoslavia	Establishment of radiation polymer laboratory, Vinca, YUG/82/007	147	140	7	-	-	-	-

Recipient	Project title and code	Total amount approved	Prior to 1986	Approved budgets 1986	1987	1988	1989	1990
Yugoslavia (cont'd.)	Ljubljana Nuclear Training Centre, YUG/83/007	105	96	9	-	-	-	-
Arab States	Industrial applications of isotopes and radiation technology, RAB/86/006	24	-	24	-	-	-	-
Asia and the Pacific	Support for regional co-operation in the industrial application of isotopes and radiation technology, RAS/79/061	4,699	3,795	663	241	-	-	-
Latin America	Regional non-destructive testing (NDT) project for Latin America and the Caribbean, RLA/84/T01 (UNFSSTD)	1,593	748	743	102	-	-	-
Sub-total		25,325	16,904	4,060	3,114	1,086	94	67

B. Projects for which IAEA is associated agency

(IAEA budget portion only)

China	Nuclear safety administration, CPR/85/067	614	-	34	361	219		-
Korea, R.	Groundwater resources development, ROK/82/014	13	-	13	-	-	-	-
Arab States	Nuclear energy manpower, RAB/84/011	49	-	49	-	-	-	-
Europe	Science and technology (OPE consultancy), RER/85/004	2	-	2	-	-	-	-
Sub-total		678	-	98	361	219	-	-
Grand total		26,003	16,904	4,158	3,475	1,305	94	67

ANNEX VII

PROJECTS COMPLETED OR CANCELLED DURING 1986

Recipient Project title and code	Year of approval	Assistance provided Experts (m/m)	 Equipment ($)	 Fellows ($)
A. COMPLETED PROJECTS				
AFGHANISTAN				
NUCLEAR SCIENCE AFG/1/004	1979, 1980 1981, 1982	34.5	220,600	0
ALBANIA				
NUCLEAR ELECTRONICS ALB/4/003	1980, 1983	0.0	60,100	0
ALGERIA				
MEDFLY CONTROL ALG/5/006	1985	0.5	0	0
PLANT BREEDING ALG/5/008	1986	0.5	0	0
GROUNDWATER STUDIES IN ARID AND SEMI-ARID AREAS, ALG/8/003	1983	1.0	0	0
INTERNAL CONTAMINATION MONITORING ALG/9/004	1984, 1986	0.5	0	0
BANGLADESH				
FOOD PRESERVATION BGD/5/007	1978	5.5	0	0
BOLIVIA				
ACCELERATOR FEASIBILITY STUDY BOL/1/008	1984	0.5	5,700	0
QUALITY CONTROL OF RADIOPHARMACEUTICALS BOL/2/009	1982	2.0	40,000	0
BRAZIL				
URANIUM RESOURCES BRA/3/010	1983, 1984 1985	1.5	115,600	0
MEDFLY ERADICATION BRA/5/016	1984	0.0	11,200	0
BURMA				
NUCLEAR MEDICINE BUR/6/013	1982, 1983 1984, 1985	1.0	51,400	0
CHILE				
HUMAN RADIOTOXICOLOGY CHI/9/009	1983, 1984	5.0	0	0
CHINA				
ACCELERATOR UTILIZATION CPR/1/002	1985	1.0	21,700	0

Recipient Project title and code	Year of approval	Assistance provided Experts (m/m)	 Equipment ($)	 Fellows ($)
COSTA RICA				
PESTICIDE RESIDUES COS/5/006	1980	3.0	65,200	0
FOOD IRRADIATION COS/5/008	1985	1.0	0	0
NUCLEAR MEDICINE COS/6/008	1983, 1984	1.5	16,500	0
CUBA				
ENVIRONMENTAL CONTAMINATION CUB/9/005	1980, 1982 1983	0.0	149,700	0
DEM. P.R. KOREA				
URANIUM ORE AND CONCENTRATE ANALYSIS DRK/3/002	1982, 1983	0.5	151,300	0
ECUADOR				
SECONDARY STANDARDS DOSIMETRY LABORATORY ECU/1/003	1980, 1981 1982, 1983	17.5	239,000	0
EGYPT				
SECONDARY STANDARDS DOSIMETRY LABORATORY EGY/1/015	1983	2.5	35,800	0
MANPOWER DEVELOPMENT: SAFETY ANALYSIS REVIEW AND EVALUATION, EGY/4/018	1983	39.5	0	0
MEDFLY CONTROL EGY/5/012	1982	19.0	68,400	0
IMPROVING CROP PLANTS THROUGH MUTATIONS EGY/5/016	1985	1.0	0	0
RADIOPHARMACEUTICALS EGY/6/003	1982	2.0	45,200	0
PERSONNEL DOSIMETRY EGY/9/013	1984	1.0	37,600	0
RADIATION TREATMENT OF SEWAGE SLUDGE EGY/9/019	1986	1.0	0	0
EL SALVADOR				
NUCLEAR APPLICATIONS PLANNING ELS/0/004	1984	2.0	0	0
RADIOIMMUNOASSAY ELS/6/008	1981	4.0	31,000	0
GREECE				
NEUTRON ACTIVATION ANALYSIS GRE/1/032	1984	0.0	27,400	0
GUATEMALA				
RADIOIMMUNOASSAY GUA/6/004	1976	3.0	7,400	0

Recipient Project title and code	Year of approval	Assistance provided Experts (m/m)	Equipment ($)	Fellows ($)
HUNGARY				
AGRICULTURAL RESIDUE STUDIES HUN/5/011	1981, 1982	0.0	49,900	0
NUCLEAR TECHNIQUES IN GLASS TECHNOLOGY HUN/8/005	1984	0.0	40,800	0
ICELAND				
RADIOISOTOPES IN ANIMAL SCIENCE ICE/5/004	1982, 1983	1.0	55,300	0
INDONESIA				
NEUTRON SCATTERING STUDY INS/1/012	1981	6.0	0	0
PRODUCTION OF RADIOIMMUNOASSAY KITS INS/2/010	1983	6.0	21,300	0
NEUTRON RADIOGRAPHY INS/8/012	1985	1.5	0	0
IRAN, I.R.				
QUALITY CONTROL OF RADIOISOTOPES IRA/2/003	1983	1.5	13,600	0
JORDAN				
ENERGY AND ELECTRICITY PLANNING JOR/0/003	1983, 1984	3.0	0	0
RADIATION PROTECTION JOR/9/002	1984	0.5	45,400	0
KOREA, R.				
TRACE ELEMENT ANALYSIS ROK/1/009	1985	0.0	16,900	0
MUTATION BREEDING ROK/5/020	1983	3.0	0	0
NUCLEAR SAFETY RESEARCH AND TRAINING ROK/9/023	1983	5.5	49,000	0
MADAGASCAR				
RESEARCH REACTOR FEASIBILITY MAG/4/002	1985	1.5	0	0
MALAWI				
NEGOTIATIONS ON URANIUM EXPLORATION MLW/3/003	1984, 1985 1986	0.5	0	0
MALAYSIA				
RADIOISOTOPES IN ANIMAL SCIENCE MAL/5/005	1978	2.5	58,800	0
RADIATION THERAPY MAL/6/012	1985	0.0	18,900	0

Recipient Project title and code	Year of approval	Assistance provided Experts (m/m)	Equipment ($)	Fellows ($)
MAURITIUS				
NUCLEAR MEDICINE MAR/6/002	1983, 1985 1986	4.5	31,200	0
MEXICO				
RESEARCH REACTOR INSTRUMENTATION AND CONTROL, MEX/4/033	1983	2.5	11,100	0
ISOTOPES IN HYDROLOGY MEX/8/009	1979, 1982	2.5	7,000	0
NUCLEAR POWER PLANT SAFETY EVALUATION MEX/9/020	1979, 1982	31.5	22,100	0
DEVELOPMENT OF NUCLEAR SAFETY COMPUTER PROGRAMME, MEX/9/023	1982, 1983	18.0	0	0
NIGERIA				
NUCLEAR PHYSICS (ILORIN) NIR/1/005	1983	0.0	10,400	0
PAKISTAN				
LOW-LEVEL RADIATION COUNTING LABORATORY PAK/9/005	1985, 1986	0.0	19,400	0
RADIATION PROTECTION PAK/9/007	1985	2.0	0	0
PHILIPPINES				
NUCLEAR MEDICINE (RIZAL HOSPITAL) PHI/6/013	1982	0.0	57,800	0
NUCLEAR RISK ASSESSMENT PHI/9/012	1983, 1984 1986	2.0	0	0
PORTUGAL				
NUCLEAR POWER PROGRAMME POR/0/003	1981, 1982	2.0	0	0
ACTINIDE CHEMISTRY POR/2/009	1983	0.0	59,800	0
NUCLEAR POWER SAFETY POR/9/002	1978, 1979 1980	7.5	17,400	0
SRI LANKA				
RADIOPHARMACEUTICALS SRL/2/004	1986	0.5	0	0
RADIATION ENTOMOLOGY SRL/5/017	1982	2.0	10,200	0
CONTROL OF MALARIA MOSQUITOES SRL/5/021	1986	1.0	0	0
NUCLEAR MEDICINE SRL/6/009	1979	7.0	48,100	0
ORGAN IMAGING SRL/6/013	1984	4.0	51,600	0
RADIATION STERILIZATION FOR TISSUE BANK SRL/7/002	1985	1.5	0	0
X-RAY FLUORESCENCE ANALYSIS SRL/8/012	1984, 1985	0.0	41,000	0

Recipient Project title and code	Year of approval	Assistance provided Experts (m/m)	 Equipment ($)	 Fellows ($)
SUDAN				
SECONDARY STANDARDS DOSIMETRY LABORATORY SUD/1/002	1979, 1985 1986	1.0	21,900	0
RADIOISOTOPES IN ANIMAL SCIENCE SUD/5/007	1975, 1978	4.5	157,900	0
ISOTOPES IN ANIMAL SCIENCE SUD/5/013	1981, 1982 1983	2.0	34,400	0
SYRIAN A.R.				
NUCLEAR ENERGY PLANNING SYR/0/003	1979, 1980 1981	4.0	0	0
THAILAND				
NUCLEAR PHYSICS THA/1/006	1984	0.0	25,100	0
TUNISIA				
RADIOISOTOPES IN AGRICULTURE TUN/5/005	1983	0.0	9,900	0
BIOLOGICAL CONTROL OF MEDFLY TUN/5/008	1985	0.5	0	0
RADIOISOTOPES IN INDUSTRY TUN/8/007	1980, 1981 1982, 1985	21.0	253,400	0
TURKEY				
SECONDARY STANDARDS DOSIMETRY LABORATORY TUR/1/011	1979, 1980 1981, 1984	3.0	206,400	0
URANIUM RECOVERY TUR/3/005	1982	2.5	7,900	0
ELECTRONIC EQUIPMENT MAINTENANCE TUR/4/018	1983	0.0	14,700	0
U.R. TANZANIA				
RADIOTHERAPY URT/6/002	1984	0.0	82,300	0
URUGUAY				
NUCLEAR POWER FEASIBILITY STUDIES URU/4/007	1984	1.0	0	0
RESEARCH REACTOR MODERNIZATION URU/4/008	1985, 1986	1.5	0	0
ISOTOPES IN AGRICULTURE URU/5/012	1981	2.0	85,200	0
VENEZUELA				
URANIUM RECOVERY VEN/3/004	1984	0.5	0	0
PLANT BREEDING VEN/5/005	1976, 1979 1981, 1982 1983	54.5	76,900	0

Recipient Project title and code	Year of approval	Assistance provided Experts (m/m)	Equipment ($)	Fellows ($)
VIET NAM				
NUCLEAR MANPOWER DEVELOPMENT VIE/4/005	1985	0.5	0	0
YUGOSLAVIA				
REACTOR FUEL MANAGEMENT YUG/4/018	1982, 1983	2.0	6,400	0
RADIOBIOLOGY YUG/7/003	1983	0.0	6,500	0
ZAIRE				
NEUTRON ACTIVATION ZAI/2/007	1974, 1981	7.0	60,700	0
RESEARCH REACTOR INSTRUMENTATION ZAI/4/008	1982, 1983 1984	0.0	99,600	0
RADIOISOTOPES IN AGRICULTURE ZAI/5/003	1974, 1976	6.5	33,900	0
REGIONAL AFRICA				
FOOD PRESERVATION RAF/5/005	1985	5.5	0	0
ISOTOPES IN HYDROLOGY RAF/8/009	1985	1.0	0	0
REGIONAL LATIN AMERICA				
NUCLEAR LEGISLATION RLA/0/007	1984	2.0	5,900	14,800
NUCLEAR SCIENCE DEVELOPMENT RLA/1/006	1984	1.5	19,300	5,700
ECOLOGICAL STUDIES OF THE AMAZON BASIN RLA/5/016	1983, 1984	18.5	0	0

B. CANCELLED PROJECTS

Recipient Project title and code	Year of approval	Assistance approved Experts (m/m)	Equipment ($)	Fellows ($)
ECUADOR				
NUCLEAR RESEARCH CENTRE ECU/4/003	1985	3.0	0	0
LIBYAN A.J.				
NUCLEAR POWER PLANT LIB/4/005	1984, 1986	6.0	0	0

Recipient Project title and code	Year of approval	Assistance approved Experts (m/m)	Equipment ($)	Fellows ($)
SUDAN				
MUTATION BREEDING SUD/5/017 *	1985, 1986	16.0	74,000	4,500
VENEZUELA				
CALCULATION OF ISODOSE CURVES FOR RADIOTHERAPY, VEN/6/002	1983	0.0	30,000	0

* Approval included future years beyond 1986.

ANNEX VIII

FOOTNOTE-a/ PROJECTS MADE OPERATIONAL OR EXTENDED DURING 1986

Recipient Project title and code	Experts (m/m)	Equipment ($)	Fellows ($)	Source [a]
BOLIVIA				
RADIOISOTOPES IN AGRICULTURE BOL/5/004	2	30,000	10,800	UK
BRAZIL				
RADIOISOTOPES IN MEDICINE BRA/6/010	0	120,000	0	GFR
BULGARIA				
CONSTRUCTION OF A NEUTRON GENERATOR BUL/4/003	0	290,100	0	USSR
CHINA				
GAMMA RADIOGRAPHY CPR/8/003 [b]	3	120,000	0	GFR
COLOMBIA				
ISOTOPE-AIDED SEDIMENTOLOGY STUDIES COL/8/012 [b]	1	0	0	TACF
ECUADOR				
ADVANCED MEDICAL PHYSICS TRAINING ECU/6/008	4	15,000	0	USA
ENVIRONMENTAL RADIOACTIVITY MONITORING ECU/9/008 [b]	1	30,000	0	UK
EGYPT				
QUALITY ASSURANCE EGY/4/027 [b]	2	200,000	0	GFR
RADIOIMMUNOASSAY IN ANIMAL SCIENCE EGY/5/018 [b]	1	40,000	0	USA
INTRACAVITARY RADIATION THERAPY FOR CANCER, EGY/6/004	10	215,000	0	ITA
ENVIRONMENTAL RADIOACTIVITY SURVEY (INSHAS), EGY/9/017	6	0	0	GFR
GREECE				
ISOTOPE-AIDED CROP STUDIES GRE/5/014	0	28,000	0	USA
GUATEMALA				
DOSIMETRY LABORATORY (SSDL) GUA/1/004	2	40,000	0	USA
ISOTOPES IN HYDROLOGY GUA/8/007 [c]	1	0	0	TACF

Recipient Project title and code	Experts (m/m)	Equipment ($)	Fellows ($)	Source [a]
INDONESIA				
NUCLEAR MATERIALS ACCOUNTING INS/0/004 [b]	5	20,000	0	USA
UTILIZATION OF MULTI-PURPOSE RESEARCH REACTOR, INS/1/015	2	82,600	0	GFR
REACTOR PHYSICS INS/4/018	12	38,000	0	GFR
JAMAICA				
RESEARCH REACTOR CENTRE JAM/4/002	6	50,000	0	USA
KENYA				
RADIOISOTOPES IN PARASITOLOGY KEN/6/007 [b]	3	90,000	1,800	UK
KOREA, R.				
STANDARDIZATION OF NEUTRON MEASUREMENTS ROK/1/007	1	65,000	0	USA
NUCLEAR FUEL CYCLE TECHNOLOGY ROK/4/014	2	45,000	0	GFR
MALAYSIA				
RADIATION-INDUCED MUTATION BREEDING MAL/5/019 [b]	3	19,000	0	USA
MEXICO				
IN-CORE FUEL MANAGEMENT MEX/4/034	2	85,000	0	USA
PERU				
MEDFLY CONTROL PER/5/012	16	180,000	0	ITA
PLANT MUTATION BREEDING PER/5/015 [b]	3	70,000	0	USA
PHILIPPINES				
NEUTRON ACTIVATION ANALYSIS PHI/1/014 [b]	0	80,000	0	UK
PORTUGAL				
LEACHING OF ORE FROM THE AZERE REGION POR/3/008 [c]	0	40,000	0	GFR
THAILAND				
RADIOCHEMISTRY TRAINING THA/2/009 [b]	7	50,000	0	GFR
UPGRADING OF RESEARCH REACTOR THA/4/010 [b]	5	55,000	0	USA
FISH PRODUCTION AND PRESERVATION THA/5/027	2	33,000	43,200	UK

Recipient Project title and code	Experts (m/m)	Equipment ($)	Fellows ($)	Source [a]
U.R. TANZANIA				
EPIDEMIOLOGY OF MALARIA URT/6/003	0	51,500	0	FIN
URUGUAY				
ASSESSMENT OF SOIL EROSION LOSSES URU/5/015	3	25,000	0	GFR
RADIOPHARMACOLOGY (CIN) URU/6/017 [b]	4	83,000	0	USA
YUGOSLAVIA				
NUCLEAR ANALYTICAL LABORATORY YUG/1/010 [b]	0	75,000	0	USA
NUCLEAR TECHNIQUES IN MEDICINE YUG/6/006 [b]	0	9,000	0	GFR
ENVIRONMENTAL MONITORING YUG/9/020 [c]	0	25,000	0	GFR
REGIONAL AFRICA				
WATER RESOURCES IN THE NILE VALLEY RAF/8/010 [b]	3	135,000	0	GFR
REGIONAL LATIN AMERICA				
RESEARCH REACTOR UTILIZATION (ARCAL V) RLA/4/007 [b]	0	0	30,000 [d]	TACF
IMPROVEMENT OF CEREALS THROUGH MUTATION BREEDING (ARCAL VII), RLA/5/021 [b]	3	85,000	0	USA
NUCLEAR ANALYTICAL TECHNIQUES (ARCAL IV), RLA/2/003 [b]	0	0	40,000 [d]	TACF

a) Explanation of abbreviations: FIN = Finland; GFR = Federal Republic of Germany; ITA = Italy; TACF = Technical Assistance and Co-operation Fund; UK = United Kingdom; USA = United States of America; USSR = Union of Soviet Socialist Republics.

b) Project made operational in 1986.

c) Project made operational in 1986 but not included in 1986 programme.

d) Funded as group training activity.

ANNEX IX

APPROVALS AGAINST THE RESERVE FUND IN 1986

Recipient	Project title and code	Experts m/m	Equipment $	Other $	Total $
A. New projects					
Colombia	Nuclear raw materials, COL/3/009	2/00	-	-	13,800
Costa Rica	Mutation breeding of legumes, COS/5/009	1/00	15,000	3,100 [a]	25,000
Cuba	Nuclear techniques in soil sciences, CUB/5/008	1/00	-	-	6,900
Dominican Rep.	Isotopes in hydrology, DOM/8/002	1/00	-	-	6,900
Egypt	Radiation treatment of sewage sludge, EGY/9/019	1/00	-	-	6,900
Haiti	Analytical laboratory for isotope hydrology, HAI/8/003	1/00	10,000	-	16,900
Hungary	Environmental radioactivity, HUN/9/009	-	24,000	-	24,000
Nigeria	Nitrogen fixation - mixed cropping system, NIR/5/015	-	25,000	-	25,000
Pakistan	Radioisotope dispensing, PAK/4/031	-	-	6,000 [b]	6,000
Peru	Isotopes in hydrology, PER/8/005	0/16	10,000	-	13,680
Philippines	Groundwater hydrology, PHI/8/011	1/00	18,100	-	25,000
Turkey	Environmental monitoring, TUR/9/010	1/00	18,100	-	25,000
Venezuela	Planning on nuclear energy development, VEN/0/006	3/00	-	-	20,700
	Commercial scale food irradiation (study), VEN/5/010	2/00	-	-	13,800
	Radiation protection regulations, VEN/9/003	3/00	-	-	20,700
	Research reactor safety, VEN/9/004	3/00	-	-	20,700
Interregional	Power and safety manpower development, INT/4/089	4/00	-	-	25,000
	Nuclear power promotion (expert group), INT/4/090	-	-	25,000 [b]	25,000
Sub-total		24/16	120,200	34,100	320,980

[a] Approval for fellowship. [b] Approval for sub-contract.

Recipient	Project title and code	Experts m/m	Equipment $	Other $	Total $
	B. Supplementary assistance to existing projects				
Bangladesh	Reactor utilization (isotope production), BGD/4/006	-	5,000	-	5,000
Ecuador	Secondary standards dosimetry laboratory, ECU/1/003	-	3,200	-	3,200
Kenya	Nuclear science laboratory, KEN/0/003	2/00	-	-	13,800
Nigeria	Nuclear techniques application, NIR/1/004	-	12,000	-	12,000
Sub-total		2/00	20,200	-	34,000
Total		26/16	140,400	34,100	354,980

ANNEX X

CHANGES TO APPROVED PROJECTS

Recipient Project title and code	Component	Existing approval 1 January 1986	Approval as of	Project changes in 1986
ALBANIA				
MOESSBAUER SPECTROSCOPY, ALB/1/004	EQUIPMENT (CC)	110,000	--	2,200
NUCLEAR ANALYTICAL LABORATORY, ALB/2/005	EXPERTS (CC)	4/02	--	-0/14
	EQUIPMENT (CC)	186,500	--	1,020
TRACERS IN INDUSTRY, ALB/8/004	EXPERTS (CC)	1/00	--	-0/15
	EQUIPMENT (CC)	40,000	--	3,450
RADIATION PROTECTION, ALB/9/002	FELLOWSHIPS (CC)	10,800	--	-10,800
ALGERIA				
ACTIVATION ANALYSIS, ALG/0/006	EXPERTS (CC)	5/03	--	1/00
	EQUIPMENT (CC)	241,000	--	-48,900
	EQUIPMENT (NCC)		--	12,000
NUCLEAR TRACK DETECTOR LABORATORY, ALG/1/006	EXPERTS (CC)	3/00	--	-1/00
NUCLEAR ANALYTICAL LABORATORY, ALG/2/002	FELLOWSHIPS (CC)	12,000	--	9,500
RAW MATERIALS ANALYSIS, ALG/3/002	EQUIPMENT (CC)	20,000	--	4,000
FOOD IRRADIATION, ALG/5/005	EQUIPMENT (CC)	201,200	--	18,000
PLANT BREEDING, ALG/5/008	EXPERTS (CC)	1/00	--	-0/16
RADIOPHARMACEUTICAL QUALITY CONTROL,	EXPERTS (CC)	2/00	--	0/13
ALG/6/003	EQUIPMENT (CC)	102,000	--	4,000
	EQUIPMENT (NCC)	50,000	--	4,000
NUCLEAR MEDICINE, ALG/6/004	EXPERTS (CC)	1/00	--	-0/25
NUCLEAR TECHNIQUES IN SEDIMENT TRANSPORT STUDIES, ALG/8/004	EXPERTS (CC)	3/00	--	-1/00
INDUSTRIAL RADIOGRAPHY, ALG/8/005	EQUIPMENT (CC)	85,000	--	13,200
RADIATION PROTECTION, ALG/9/006	EXPERTS (CC)	1/00	--	2/22
	EQUIPMENT (CC)		--	45,000
BANGLADESH				
DATABASE DEVELOPMENT, BGD/0/003	EQUIPMENT (CC)	15,000	--	-13,000
NUCLEAR MATERIALS PROSPECTION, BGD/3/005	EXPERTS (CC)	6/09	--	-2/00
	EQUIPMENT (CC)	76,500	--	21,800
RESEARCH REACTOR COMMISSIONING, BGD/4/008	EQUIPMENT (CC)	30,000	--	9,300
FOOD IRRADIATION, BGD/5/010	FELLOWSHIPS (CC)	18,000	--	3,000
NITROGEN FIXATION IN GRAIN LEGUMES, BGD/5/012	EQUIPMENT (CC)	69,500	--	2,500
NUCLEAR MEDICINE, BGD/6/007	EQUIPMENT (CC)	123,500	--	23,500
TRACERS IN SEDIMENTOLOGY, BGD/8/004	EXPERTS (CC)	6/00	--	-5/23
	EQUIPMENT (CC)	50,000	--	55,800
RADIOACTIVE WASTE MANAGEMENT, BGD/9/005	EQUIPMENT (CC)	60,000	--	2,000
BOLIVIA				
SECONDARY STANDARDS DOSIMETRY	EXPERTS (CC)	6/00	--	-3/02
LABORATORY, BOL/1/007	EQUIPMENT (CC)	29,000	--	7,000
ACCELERATOR FEASIBILITY STUDY, BOL/1/008	EQUIPMENT (CC)	3,500	--	3,400
X-RAY FLUORESCENCE, BOL/2/008	EXPERTS (CC)	4/00	--	-1/00
	EQUIPMENT (CC)	119,000	--	7,000
	EQUIPMENT (NCC)	79,000	--	4,000

Recipient Project title and code	Component	Existing approval 1 January 1986	Approval as of	Project changes in 1986
BOLIVIA (cont'd.)				
RADIOISOTOPES IN AGRICULTURE, BOL/5/004	EXPERTS (CC)	16/20	86-05-14	-0/22
	FELLOWSHIPS (CC)	33,300	86-05-14	-10,800
RADIOIMMUNOASSAY, BOL/6/011	EXPERTS (CC)	4/00	- -	-0/10
NUCLEAR MEDICINE CENTRE UPGRADING, BOL/6/013	EXPERTS (CC)	4/00	- -	-1/23
BRAZIL				
TECHNICIAN TRAINING, BRA/0/009	EXPERTS (CC)	14/06	- -	-0/28
ISOTOPE-AIDED STUDIES OF THE BRAZILIAN AMAZON, BRA/0/010	EXPERTS (CC)	63/00	- -	2/00
SECONDARY STANDARDS DOSIMETRY	EQUIPMENT (CC)	250,000	- -	9,000
LABORATORY, BRA/1/022	FELLOWSHIPS (CC)	14,400	- -	3,600
URANIUM RESOURCES, BRA/3/010	FELLOWSHIPS (CC)	1,500	- -	-1,500
QUALITY ASSURANCE FOR NUCLEAR POWER PLANTS (CNEN), BRA/4/030	EXPERTS (CC)	5/00	- -	-1/00
ANIMAL SCIENCE, BRA/5/015	EXPERTS (CC)	4/10	- -	-2/00
	EQUIPMENT (CC)	26,000	- -	17,100
FOLIAR FERTILIZER STUDIES, BRA/5/017	EQUIPMENT (CC)	10,000	- -	2,000
NITROGEN-15 UTILIZATION, BRA/5/018	EXPERTS (CC)	1/00	- -	0/06
	EQUIPMENT (CC)	46,350	- -	-2,000
RADIOISOTOPES IN CLINICAL MEDICINE, BRA/6/008	EXPERTS (CC)	7/00	- -	3/00
RADIOISOTOPES IN MEDICINE, BRA/6/010	EXPERTS (CC)	6/00	- -	-0/13
	EQUIPMENT (CC)	264,864	86-11-20	-2,000
SAFETY ANALYSIS: ANGRA UNITS 2 AND 3, BRA/9/017	FELLOWSHIPS (CC)	9,000	- -	4,000
REACTOR SAFETY RESEARCH PROGRAMME, BRA/9/019	EXPERTS (CC)	6/00	- -	-0/18
NUCLEAR POWER PLANT SITING, BRA/9/022	EXPERTS (CC)	2/00	- -	0/15
RADIATION PROTECTION (IRD), BRA/9/023	EXPERTS (CC)	5/00	- -	-0/19
	FELLOWSHIPS (CC)	7,800	- -	2,000
RADIATION PROTECTION (CDTN), BRA/9/026	EQUIPMENT (CC)	70,000	- -	-25,000
NUCLEAR FUEL CYCLE INSTALLATION SAFETY, BRA/9/027	EXPERTS (CC)	4/00	- -	-0/26
	FELLOWSHIPS (CC)	21,000	- -	-13,200
RADIOACTIVE EFFLUENT MONITORING, BRA/9/028	FELLOWSHIPS (CC)	11,250	- -	-5,400
BULGARIA				
RESEARCH REACTOR MODERNIZATION, BUL/4/002	EXPERTS (CC)	6/00	- -	-2/00
	EQUIPMENT (CC)	90,000	- -	13,800
STERILIZATION OF MEDICAL SUPPLIES, BUL/8/008	EXPERTS (CC)	4/00	- -	-1/07
	EQUIPMENT (CC)	425,000	- -	93,600
	EQUIPMENT (NCC)	85,000	- -	-85,000
BURMA				
NUCLEAR CHEMISTRY, BUR/2/006	EXPERTS (CC)	3/00	- -	-3/00
NUCLEAR INSTRUMENTATION, BUR/4/005	EXPERTS (CC)	6/00	- -	-3/00
	EQUIPMENT (CC)	44,000	- -	3,600
NUCLEAR MEDICINE, BUR/6/013	FELLOWSHIPS (CC)	9,000	- -	-9,000
NUCLEAR MEDICINE SERVICES, BUR/6/014	EXPERTS (CC)	12/00	- -	-6/00
	EQUIPMENT (CC)	107,000	- -	-15,000
TISSUE STERILIZATION, BUR/7/004	EQUIPMENT (CC)	72,000	- -	-3,000
	FELLOWSHIPS (CC)	12,000	- -	-12,000

Recipient Project title and code	Component	Existing approval 1 January 1986	Approval as of	Project changes in 1986
CHILE				
NEUTRON DOSIMETRY, CHI/1/013	EXPERTS (CC)	4/00	- -	-1/00
	EQUIPMENT (CC)	25,000	- -	-7,000
DEVELOPMENT OF RADIOPHARMACEUTICALS, CHI/2/008	EQUIPMENT (CC)	78,000	- -	-10,000
IMPURITIES IN URANIUM COMPOUNDS, CHI/3/008	EQUIPMENT (CC)	110,000	- -	35,000
IRRADIATION AND TESTING OF REACTOR	EXPERTS (CC)	4/00	- -	-0/11
MATERIALS, CHI/4/010	EQUIPMENT (CC)	28,000	- -	-5,000
STUDIES ON PHOSPHATE FERTILIZER USE EFFICIENCY, CHI/5/010	EQUIPMENT (CC)	14,900	- -	2,000
REPRODUCTIVE PHYSIOLOGY OF THE VICUNA,	EXPERTS (CC)	5/21	- -	-0/21
CHI/5/013	FELLOWSHIPS (CC)	19,350	- -	2,500
EVALUATION OF RESEARCH REACTOR SAFETY	EXPERTS (CC)	7/13	- -	-0/15
REPORT, CHI/9/008	EQUIPMENT (CC)	44,000	- -	-27,000
	FELLOWSHIPS (CC)		- -	25,000
WASTE MANAGEMENT, CHI/9/010	FELLOWSHIPS (CC)	9,000	- -	500
SEISMIC TELEMETRY NETWORK, CHI/9/011	EXPERTS (CC)	2/16	- -	-0/27
	EQUIPMENT (CC)	95,000	- -	6,000
CHINA				
SECONDARY STANDARDS DOSIMETRY	EQUIPMENT (CC)	85,000	- -	17,000
LABORATORY, CPR/1/003	FELLOWSHIPS (CC)	5,400	- -	-5,400
RADIATION STERILIZATION OF MEDICAL	EQUIPMENT (CC)	120,000	- -	2,000
PRODUCTS, CPR/8/002	FELLOWSHIPS (CC)	9,150	- -	-7,200
RADIATION PROTECTION IN MEDICINE, CPR/9/005	FELLOWSHIPS (CC)	91,800	- -	-21,600
COLOMBIA				
SECONDARY STANDARDS DOSIMETRY	EXPERTS (CC)	8/00	- -	-1/00
LABORATORY, COL/1/005	EQUIPMENT (CC)	330,000	- -	16,000
X-RAY FLUORESCENCE, COL/2/009	EXPERTS (CC)	2/00	- -	2/00
RADIOPHARMACEUTICAL KIT PRODUCTION AND	EXPERTS (CC)	1/00	- -	-0/16
QUALITY CONTROL, COL/2/010	EQUIPMENT (CC)	20,000	- -	3,680
EMISSION SPECTROMETRY, COL/2/011	FELLOWSHIPS (CC)	10,800	- -	-10,800
NEUTRON ACTIVATION ANALYSIS, COL/3/008	EQUIPMENT (CC)	18,000	- -	5,000
NUCLEAR INSTRUMENTATION, COL/4/007	EXPERTS (CC)	8/00	- -	-1/00
IRRADIATED VACCINES AGAINST PARASITES, COL/5/005	EXPERTS (CC)	6/28	- -	-2/00
STUDIES ON NITROGEN FERTILIZER USE	EQUIPMENT (CC)	130,700	- -	13,000
EFFICIENCY, COL/5/007	EQUIPMENT (NCC)	16,100	- -	12,000
RADIATION-INDUCED MUTATION BREEDING, COL/5/008	EXPERTS (CC)	3/00	- -	-1/00
COSTA RICA				
APPLIED NUCLEAR PHYSICS, COS/1/005	EXPERTS (CC)	8/00	- -	-0/10
	EQUIPMENT (NCC)	12,000	- -	-12,000
CRYOGENIC SERVICE, COS/1/006	EQUIPMENT (NCC)	79,000	- -	2,500
URANIUM PROSPECTION, COS/3/003	EXPERTS (CC)	10/00	- -	5/15
	EQUIPMENT (CC)	18,000	- -	9,000
HORMONE PROFILES IN CATTLE, COS/5/007	EXPERTS (CC)	3/00	- -	-1/15
	EQUIPMENT (NCC)	5,000	- -	-5,000

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COTE D'IVOIRE				
NUCLEAR SCIENCE LABORATORY, IVC/0/003	EQUIPMENT (NCC)	124,000	--	-10,000
OPTIMIZATION OF CULTIVATION METHODS FOR	EQUIPMENT (CC)	40,500	--	5,500
UPLAND RICE, IVC/5/012	EQUIPMENT (NCC)		--	2,500
NUCLEAR METHODS IN NUTRITIONAL ANALYSIS,	EXPERTS (CC)	5/00	--	-1/00
IVC/5/015	EQUIPMENT (CC)	30,000	--	4,900
	FELLOWSHIPS (CC)	16,200	--	-9,000
RADIOIMMUNOASSAY IN ANIMAL PATHOLOGY,	EXPERTS (CC)	7/00	--	-1/00
IVC/5/016				
CUBA				
NUCLEAR TRAINING, CUB/0/003	EXPERTS (CC)	15/00	--	1/15
PREPARATION AND QUALITY CONTROL OF	EXPERTS (CC)	3/00	--	-1/00
RADIOPHARMACEUTICALS, CUB/2/005	EQUIPMENT (CC)	50,000	--	4,000
	FELLOWSHIPS (CC)	10,800	--	-10,800
RADIATION PRESERVATION OF AGRICULTURAL	EQUIPMENT (NCC)		--	1,000
PRODUCTS, CUB/5/006				
NUCLEAR CARDIOLOGY, CUB/6/007	EXPERTS (CC)	4/00	--	-3/00
	EQUIPMENT (CC)	100,000	--	163,800
	EQUIPMENT (NCC)	120,000	--	-120,000
ISOTOPES IN HYDROLOGY, CUB/8/007	EXPERTS (CC)	3/00	--	1/00
RADIATION PROTECTION, CUB/9/006	EQUIPMENT (CC)	317,000	--	21,000
CYPRUS				
RADIATION DOSIMETRY, CYP/1/003	EQUIPMENT (CC)	57,000	--	2,800
NUCLEAR TECHNIQUES IN ANIMAL PRODUCTION,	EXPERTS (CC)	3/00	--	0/15
CYP/5/013	EQUIPMENT (CC)	113,800	--	10,000
DEM. P.R. KOREA				
SECONDARY STANDARDS DOSIMETRY	EQUIPMENT (CC)	330,000	--	47,500
LABORATORY, DRK/1/003				
RADIOISOTOPE PRODUCTION, DRK/2/003	EQUIPMENT (CC)	56,000	--	-16,000
CYCLOTRON FACILITY, DRK/4/002	EQUIPMENT (NCC)	1,685,000	--	155,000
FERTILIZER USE EFFICIENCY STUDIES,	EQUIPMENT (CC)	65,000	--	6,400
DRK/5/002	EQUIPMENT (NCC)	24,000	--	27,000
DOMINICAN REPUBLIC				
NUCLEAR SCIENCE LABORATORY (UASD),	EQUIPMENT (CC)	207,000	--	4,400
DOM/0/002	EQUIPMENT (NCC)	28,000	--	-2,500
MOESSBAUER SPECTROMETRY, DOM/1/003	EXPERTS (CC)	6/00	--	1/00
NUCLEAR ANALYTICAL TECHNIQUES, DOM/1/004	EXPERTS (CC)	2/13	--	-1/20
ECUADOR				
SECONDARY STANDARDS DOSIMETRY	EQUIPMENT (CC)	244,000	86-02-06	-6,300
LABORATORY, ECU/1/003				
RADIOPHARMACEUTICAL PRODUCTION,	EXPERTS (CC)	6/00	--	-0/15
ECU/2/007	EQUIPMENT (CC)	130,000	--	-15,000
	FELLOWSHIPS (CC)	55,800	--	-16,200
NUCLEAR TECHNIQUES IN ANIMAL HEALTH AND	EXPERTS (CC)	14/08	--	-2/00
PRODUCTION, ECU/5/006	EQUIPMENT (CC)	44,200	--	3,200
AGRICULTURAL CHEMICALS AND RESIDUES,	EXPERTS (CC)	13/15	--	-5/00
ECU/5/008	EQUIPMENT (CC)	39,000	--	45,700

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ECUADOR (cont'd.)				
NUCLEAR TECHNIQUES IN AGRICULTURE, ECU/5/009	EXPERTS (CC)	13/00	- -	-4/00
	EQUIPMENT (CC)	51,000	- -	31,600
	EQUIPMENT (NCC)	15,000	- -	27,600
	FELLOWSHIPS (CC)	11,250	- -	10,000
RADIOLOGICAL SAFETY INSPECTION, ECU/9/007	EQUIPMENT (CC)	97,000	- -	3,450
EGYPT				
MICROPROCESSOR APPLICATIONS IN NUCLEAR SCIENCE, EGY/0/007	EXPERTS (CC)	12/00	- -	-4/00
	EQUIPMENT (CC)		- -	6,900
MOESSBAUER SPECTROMETRY (AL-AZHAR), EGY/1/018	EQUIPMENT (CC)	55,000	- -	-2,000
FUEL ELEMENT FABRICATION, EGY/4/017	EQUIPMENT (CC)	65,000	- -	-1,300
PRODUCTION OF RADIOISOTOPES, EGY/4/023	EXPERTS (CC)	2/00	- -	1/00
RADIOMETALLURGY LABORATORY, EGY/4/026	FELLOWSHIPS (CC)	19,800	- -	-19,800
RADIOISOTOPES IN ANIMAL SCIENCE, EGY/5/009	EXPERTS (CC)	4/14	- -	-2/00
	EQUIPMENT (CC)	86,000	- -	3,000
ANIMAL SCIENCE (PYRAMID RESEARCH INSTITUTE), EGY/5/015	EXPERTS (CC)	2/00	- -	-0/21
RADIOIMMUNOASSAY IN ANIMAL SCIENCE, EGY/5/018	EXPERTS (CC)	1/00	86-07-18	0/05
INTRACAVITARY RADIATION THERAPY FOR CANCER, EGY/6/004	EQUIPMENT (CC)	704,400	86-01-29	-30,000
	SUB-CONTRACTS (CC)	80,000	- -	30,000
WASTE MANAGEMENT (LIQUID), EGY/9/007	EQUIPMENT (CC)	465,000	- -	-21,200
	EQUIPMENT (NCC)	3,019,000	- -	21,200
PERSONNEL DOSIMETRY, EGY/9/013	EQUIPMENT (CC)	35,000	- -	2,500
NUCLEAR SAFETY, EGY/9/014	EQUIPMENT (CC)	83,000	- -	1,200
RADIATION MONITORING SYSTEM, EGY/9/015	EQUIPMENT (NCC)	257,500	- -	13,000
RADIATION PROTECTION, EGY/9/016	EQUIPMENT (CC)	50,000	- -	13,300
ENVIRONMENTAL RADIOACTIVITY SURVEY (INSHAS), EGY/9/017	EXPERTS (CC)	9/00	86-06-19	-3/00
	EQUIPMENT (CC)	85,000	- -	17,500
EL SALVADOR				
NUCLEAR SCIENCE LABORATORY, ELS/1/002	EXPERTS (CC)	8/00	- -	-2/00
	EQUIPMENT (CC)	85,000	- -	17,000
MAINTENANCE OF NUCLEAR INSTRUMENTS, ELS/4/002	EQUIPMENT (CC)	50,000	- -	16,000
ISOTOPES IN GEOTHERMAL STUDIES, ELS/8/002	EXPERTS (CC)	1/00	- -	3/00
	EQUIPMENT (CC)	28,000	- -	25,000
ETHIOPIA				
ANIMAL SCIENCE, ETH/5/007	EXPERTS (CC)	7/00	- -	-1/00
	EQUIPMENT (CC)	70,000	- -	6,900
ISOTOPES IN AGRICULTURE, ETH/5/008	EQUIPMENT (CC)	61,500	- -	3,000
	EQUIPMENT (NCC)	36,200	- -	2,000
RADIOISOTOPES IN MEDICINE, ETH/6/003	EXPERTS (CC)	12/00	- -	1/15
	EQUIPMENT (CC)	148,500	- -	-3,850
	FELLOWSHIPS (CC)	32,400	- -	-32,400
GHANA				
SECONDARY STANDARDS DOSIMETRY LABORATORY, GHA/1/007	EXPERTS (CC)	4/00	- -	-0/12

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GHANA (cont'd.)				
TRAINING IN NUCLEAR INSTRUMENTATION,	EXPERTS (CC)	7/00	--	-0/13
GHA/4/008	EQUIPMENT (CC)	76,500	--	15,750
	EQUIPMENT (NCC)	25,000	--	-25,000
NUCLEAR AGRICULTURE CENTRE, GHA/5/008	EQUIPMENT (CC)	222,000	--	20,000
	EQUIPMENT (NCC)	10,000	--	38,500
RIVERINE TSETSE FLY STUDY, GHA/5/010	EXPERTS (CC)	3/00	--	-2/02
	EQUIPMENT (CC)	50,000	--	5,500
NUCLEAR TECHNIQUES IN RUMINANT	EXPERTS (CC)	8/00	--	-0/20
PRODUCTIVITY STUDIES, GHA/5/013	EQUIPMENT (CC)	75,000	--	4,600
	FELLOWSHIPS (CC)	10,800	--	-2,000
NUCLEAR MEDICINE, GHA/6/007	FELLOWSHIPS (CC)	22,500	--	-3,252
GREECE				
RADIOPHARMACEUTICALS, GRE/2/015	EQUIPMENT (CC)	130,000	--	3,000
RADIOPHARMACOLOGY, GRE/2/017	EQUIPMENT (CC)	10,000	--	-3,200
RADIOIMMUNOCHEMISTRY, GRE/2/019	EQUIPMENT (CC)	32,000	--	3,200
NUCLEAR TECHNOLOGY IN ANIMAL SCIENCE,	EQUIPMENT (CC)	45,500	--	5,400
GRE/5/017	FELLOWSHIPS (CC)	5,400	--	-5,400
GUATEMALA				
X-RAY FLUORESCENCE IN MINERAL ANALYSIS,	EQUIPMENT (CC)	250,000	--	20,000
GUA/1/003	EQUIPMENT (NCC)	30,000	--	-21,939
DOSIMETRY LABORATORY (SSDL), GUA/1/004	EXPERTS (CC)	4/00	86-07-18	-1/00
	EQUIPMENT (CC)	65,000	86-07-18	6,000
URANIUM PROSPECTION, GUA/3/003	EXPERTS (CC)	5/00	--	-1/13
	EQUIPMENT (CC)	75,000	--	9,890
RADIOISOTOPES IN AGRICULTURE, GUA/5/005	EXPERTS (CC)	5/18	--	-1/00
	EQUIPMENT (CC)	113,000	--	24,900
	EQUIPMENT (NCC)	10,000	--	34,500
MEDFLY ERADICATION PROGRAMME, GUA/5/006	EXPERTS (CC)	1/00	--	0/15
	EQUIPMENT (CC)	60,000	--	11,100
	FELLOWSHIPS (CC)	11,000	--	-11,000
PREPARATION AND CONTROL OF	EQUIPMENT (CC)	99,500	--	-20,952
RADIOPHARMACEUTICALS, GUA/6/006	EQUIPMENT (NCC)	35,000	--	-10,406
NUCLEAR MEDICINE LABORATORY, GUA/6/007	EXPERTS (CC)	4/00	--	-1/00
	FELLOWSHIPS (CC)	3,600	--	-3,600
HUNGARY				
CYCLOTRON LABORATORY, HUN/4/004	EXPERTS (CC)	4/10	--	-1/00
	EQUIPMENT (CC)	78,850	--	6,900
THERMOHYDRAULIC LOOP EXPERIMENTS,	EQUIPMENT (CC)	75,000	--	16,800
HUN/4/005	FELLOWSHIPS (CC)	4,500	--	-4,500
REACTOR MODERNIZATION, HUN/4/006	EQUIPMENT (CC)	300,000	--	75,000
	EQUIPMENT (NCC)	850,000	--	1,985,000
FOOD IRRADIATION TECHNOLOGY, HUN/8/006	EQUIPMENT (NCC)	507,256	--	36,000
ENVIRONMENTAL RADIOACTIVITY, HUN/9/009	EQUIPMENT (CC)	22,000	86-06-06	2,000
ICELAND				
ISOTOPES IN GEOTHERMAL STUDIES,	EXPERTS (CC)	2/00	--	-2/00
ICE/8/004	EQUIPMENT (CC)	296,000	--	13,250

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INDONESIA				
SECONDARY STANDARDS DOSIMETRY	EQUIPMENT (CC)	259,000	- -	29,000
LABORATORY, INS/1/010	FELLOWSHIPS (CC)	18,000	- -	-18,000
RADIONUCLIDE STANDARDIZATION, INS/1/016	FELLOWSHIPS (CC)	13,050	- -	-7,200
NUCLEAR MATERIALS ANALYSIS, INS/3/005	EQUIPMENT (CC)	20,000	- -	-3,800
URANIUM PROSPECTION, INS/3/008	FELLOWSHIPS (CC)	7,200	- -	-7,200
REACTOR PHYSICS, INS/4/018	EXPERTS (CC)	37/00	86-06-19	-1/00
RADIOCARBON DATING, INS/8/013	EQUIPMENT (CC)	56,000	- -	10,000
INDUSTRIAL BIOMASS CONVERSION, INS/8/014	FELLOWSHIPS (CC)	30,600	- -	-7,200
RADIOACTIVE WASTE MANAGEMENT, INS/9/006	EXPERTS (CC)	9/00	- -	-1/00
	FELLOWSHIPS (CC)	10,800	- -	-10,800
REACTOR SAFETY, INS/9/007	EXPERTS (CC)	12/00	- -	1/00
ENVIRONMENTAL RADIOACTIVITY LABORATORY, INS/9/008	FELLOWSHIPS (CC)	44,400	- -	-11,600
IRAN, I.R.				
QUALITY CONTROL OF RADIOISOTOPES,	EXPERTS (CC)	3/00	- -	-1/17
IRA/2/003	EQUIPMENT (CC)	14,000	- -	-414
RADIOISOTOPE PRODUCTION, IRA/2/004	EQUIPMENT (CC)	59,162	- -	14,500
IRAQ				
NUCLEAR POWER SAFETY, IRQ/9/004	EQUIPMENT (CC)		- -	1,000
JAMAICA				
RESEARCH REACTOR CENTRE, JAM/4/002	EXPERTS (CC)	27/09	86-07-18	-2/00
JORDAN				
ENERGY AND ELECTRICITY PLANNING, JOR/0/003	EXPERTS (CC)	4/03	- -	-1/05
RADIATION AND RADIOISOTOPE LABORATORY,	EXPERTS (CC)	2/00	- -	2/25
JOR/0/004	EQUIPMENT (CC)	200,000	- -	-4,300
	FELLOWSHIPS (CC)	9,000	- -	-9,000
KENYA				
NUCLEAR SCIENCE LABORATORY, KEN/0/003	EXPERTS (CC)	57/00	86-12-02	2/15
	EQUIPMENT (CC)	274,000	- -	13,500
RADIOCHEMISTRY, KEN/1/003	EXPERTS (CC)	3/14	- -	-1/00
NUCLEAR INSTRUMENT MAINTENANCE AND	EQUIPMENT (CC)	75,000	- -	-4,000
QUALITY CONTROL, KEN/4/004	FELLOWSHIPS (CC)	10,800	- -	-10,800
ANIMAL REPRODUCTIVE BEHAVIOUR STUDIES,	EXPERTS (CC)	5/00	- -	-1/00
KEN/5/011	EQUIPMENT (CC)	44,000	- -	16,900
INTRACAVITARY RADIATION THERAPY FOR CERVICAL CANCER, KEN/6/006	EQUIPMENT (CC)	90,000	- -	-26,000
NON-DESTRUCTIVE TESTING, KEN/8/004	EXPERTS (CC)	6/00	- -	3/20
	EQUIPMENT (CC)	77,000	- -	5,200
RADIATION PROTECTION, KEN/9/004	EXPERTS (CC)	2/00	- -	-0/15
	EQUIPMENT (CC)	90,000	- -	20,000
KOREA, R.				
SECONDARY STANDARDS DOSIMETRY LABORATORY, ROK/1/006	EQUIPMENT (CC)	157,000	- -	22,700
NUCLEAR MANPOWER DEVELOPMENT, ROK/4/012	EXPERTS (CC)	11/00	- -	-0/24
	TRAINING COURSES (CC)		- -	36,000

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KOREA, R. (cont'd.)				
NUCLEAR POWER PLANT QUALITY ASSURANCE AND START-UP TESTING, ROK/4/013	EQUIPMENT (CC)	55,000	- -	-31,000
SOIL-WATER RELATIONSHIP STUDIES, ROK/5/019	EXPERTS (CC)	9/06	- -	-3/00
ISOTOPES IN ANIMAL PRODUCTION, ROK/5/022	EQUIPMENT (CC)	40,000	- -	9,000
RADIOISOTOPES IN FERTILIZER STUDIES, ROK/5/023	EQUIPMENT (CC)	25,000	- -	-11,000
COMMISSIONING AND START-UP TESTING OF NUCLEAR POWER PLANTS, ROK/9/027	EXPERTS (CC)	36/00	- -	-3/00
LEBANON				
PESTICIDE ANALYSIS, LEB/5/011	EQUIPMENT (CC)	69,000	- -	3,000
LIBYAN A.J.				
NUCLEAR RAW MATERIALS, LIB/3/004	EQUIPMENT (CC)	57,000	- -	17,500
RADIATION SHIELDING MATERIALS, LIB/4/004	EQUIPMENT (CC)	40,000	- -	1,000
ERADICATION OF MEDITERRANEAN FRUIT FLY, LIB/5/003	EXPERTS (CC)	8/00	- -	-4/00
FERTILIZER STUDIES, LIB/5/004	EXPERTS (CC)	7/00	- -	-3/27
	EQUIPMENT (CC)	40,000	- -	-16,300
	EQUIPMENT (NCC)	10,000	- -	35,400
FOOD PRESERVATION BY IRRADIATION, LIB/5/005	EXPERTS (CC)	2/00	- -	-1/00
	FELLOWSHIPS (CC)	19,050	- -	-10,050
MADAGASCAR				
NUCLEAR PHYSICS, MAG/1/004	EQUIPMENT (CC)	208,000	- -	25,200
	EQUIPMENT (NCC)	3,400	- -	3,000
NUCLEAR RAW MATERIALS, MAG/3/004	EQUIPMENT (CC)	210,600	- -	5,500
	FELLOWSHIPS (CC)	13,500	- -	-2,751
ESTABLISHMENT OF RADIOACTIVE MINERAL RESOURCE INVENTORY, MAG/3/006	EQUIPMENT (CC)	20,000	- -	8,300
	FELLOWSHIPS (CC)	5,400	- -	-5,400
MALAYSIA				
NUCLEAR POWER PLANNING, MAL/0/007	EXPERTS (CC)	6/00	- -	2/00
SECONDARY STANDARDS DOSIMETRY LABORATORY, MAL/1/003	EQUIPMENT (CC)	310,600	- -	5,800
	FELLOWSHIPS (CC)	10,800	- -	-10,800
RESEARCH REACTOR UTILIZATION, MAL/1/008	FELLOWSHIPS (CC)	9,000	- -	-1,346
LATEX MATURATION STUDIES, MAL/2/003	EXPERTS (CC)		- -	1/00
NITROGEN-15 FERTILIZER STUDIES, MAL/5/017	EQUIPMENT (CC)	20,000	- -	2,200
NITROGEN-15 FERTILIZER STUDIES, MAL/5/018	EQUIPMENT (CC)	21,600	- -	19,000
	EQUIPMENT (NCC)	71,000	- -	-4,000
RADIOIMMUNOASSAY IN MEDICINE, MAL/6/011	EQUIPMENT (CC)	16,000	- -	5,000
NUCLEAR APPLICATIONS IN INDUSTRY, MAL/8/003	EQUIPMENT (CC)	267,540	- -	4,000
TRACERS IN SEDIMENTOLOGY, MAL/8/005	EQUIPMENT (CC)	75,000	- -	40,000
ENVIRONMENTAL MONITORING, MAL/9/003	EQUIPMENT (CC)	121,000	- -	4,000
RADIATION PROTECTION PROGRAMME, MAL/9/007	FELLOWSHIPS (CC)	93,600	- -	-46,800
MALI				
RADIOISOTOPES IN AGRICULTURE, MLI/5/004	EXPERTS (CC)	9/10	- -	-2/00

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MALI (cont'd.)				
MUTATION BREEDING OF RICE AND FONIO, MLI/5/008	EXPERTS (CC)	4/00	- -	-1/00
	EQUIPMENT (CC)	45,000	- -	5,500
RADIOISOTOPES IN AGROMETEOROLOGY, MLI/5/010	EQUIPMENT (CC)		- -	10,800
	FELLOWSHIPS (CC)	10,800	- -	-10,800
NUCLEAR MEDICINE, MLI/6/002	EXPERTS (CC)	16/20	- -	-1/00
STERILIZATION OF MEDICAL SUPPLIES, MLI/7/002	EXPERTS (CC)	1/00	- -	-0/21
SEDIMENTOLOGY, MLI/8/003	EXPERTS (CC)	3/03	- -	-1/00
	EQUIPMENT (CC)	150,000	- -	-7,000
RADIATION PROTECTION, MLI/9/002	EXPERTS (CC)	2/00	- -	-1/00
	EQUIPMENT (CC)	56,000	- -	13,500
MAURITIUS				
NUCLEAR MEDICINE, MAR/6/002	EQUIPMENT (NCC)	40,000	- -	-40,000
MEXICO				
NUCLEAR APPLICATIONS, MEX/0/008	EXPERTS (CC)	11/00	- -	-1/00
RADIOACTIVE STANDARDS, MEX/1/010	EXPERTS (CC)	3/00	- -	-1/00
THERMOLUMINESCENCE DOSIMETRY, MEX/1/011	EQUIPMENT (CC)	6,000	- -	-1,980
RADIOPHARMACEUTICAL PRODUCTION, MEX/2/010	EXPERTS (CC)	7/00	- -	-1/22
	FELLOWSHIPS (CC)	3,750	- -	-1,800
IN-CORE FUEL MANAGEMENT, MEX/4/034	EXPERTS (CC)	3/00	86-07-18	-1/00
	EQUIPMENT (CC)	85,000	86-07-18	-85,000
	SUB-CONTRACTS (CC)	204,600	- -	95,000
RUMINANT REPRODUCTION STUDIES, MEX/5/012	EXPERTS (CC)	3/00	- -	-1/00
	EQUIPMENT (CC)	61,900	- -	8,000
	EQUIPMENT (NCC)	8,000	- -	-8,000
ISOTOPES IN ENVIRONMENTAL STUDIES, MEX/8/014	EXPERTS (CC)	3/00	- -	-1/00
	EQUIPMENT (CC)	36,000	- -	11,000
ECOLOGICAL MODELLING, MEX/9/028	EXPERTS (CC)	2/07	- -	-2/00
	EQUIPMENT (CC)	32,200	- -	-2,900
RADIOACTIVE WASTE TREATMENT AND DISPOSAL, MEX/9/029	EXPERTS (CC)	3/00	- -	-3/00
	SUB-CONTRACTS (CC)		- -	25,000
PROBABILISTIC RISK ANALYSIS, MEX/9/031	FELLOWSHIPS (CC)	12,000	- -	-4,200
COMMISSIONING OF LAGUNA VERDE NUCLEAR POWER PLANT, MEX/9/032	FELLOWSHIPS (CC)	10,800	- -	4,200
MOROCCO				
NUCLEAR LEGISLATION AND REGULATORY ACTIVITIES, MOR/0/002	EXPERTS (CC)	4/00	- -	-2/00
	FELLOWSHIPS (CC)	42,150	- -	-23,000
NUCLEAR ENERGY RESEARCH CENTRE, MOR/0/003	EXPERTS (CC)	3/00	- -	-1/01
RAW MATERIALS, MOR/3/007	EQUIPMENT (CC)	72,000	- -	6,000
	FELLOWSHIPS (CC)	21,600	- -	-20,500
FEASIBILITY AND SITING STUDIES, MOR/4/007	EXPERTS (CC)	6/00	- -	-1/00
RADIOISOTOPES IN AGRICULTURE, MOR/5/013	EQUIPMENT (CC)	66,000	- -	-1,000
	EQUIPMENT (NCC)	83,000	- -	-8,000
	FELLOWSHIPS (CC)	3,600	- -	5,000
NUCLEAR MEDICINE, MOR/6/008	EXPERTS (CC)	13/00	- -	-3/17
	FELLOWSHIPS (CC)	4,500	- -	-1,768
RADIATION PROTECTION, MOR/9/005	FELLOWSHIPS (CC)	12,300	- -	-7,000

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NICARAGUA				
WATER BALANCE STUDIES, NIC/5/002	EXPERTS (CC)	3/00	- -	-1/00
NUCLEAR MEDICINE SERVICES, NIC/6/002	EQUIPMENT (CC)	39,000	- -	4,500
ISOTOPES IN HYDROLOGY, NIC/8/002	EQUIPMENT (CC)	10,000	- -	7,000
NIGER				
RADIOISOTOPE LABORATORY, NER/0/003	EXPERTS (CC)	35/00	- -	-3/23
	EQUIPMENT (CC)	189,800	- -	-38,000
	EQUIPMENT (NCC)	20,000	- -	59,000
	FELLOWSHIPS (CC)	15,000	- -	-15,000
RADIOISOTOPES IN AGRICULTURE, NER/5/006	EXPERTS (CC)	1/00	- -	-0/20
RADIOISOTOPES IN HYDROLOGY, NER/8/003	EXPERTS (CC)	5/03	- -	0/15
	EQUIPMENT (CC)	133,820	- -	5,000
RADIATION PROTECTION IN URANIUM MINING AND MILLING, NER/9/005	EXPERTS (CC)	5/00	- -	-1/12
	EQUIPMENT (CC)	75,000	- -	6,500
	FELLOWSHIPS (CC)	3,600	- -	-3,600
NIGERIA				
NUCLEAR TECHNIQUES APPLICATION, NIR/1/004	EXPERTS (CC)	10/00	- -	-3/28
BIOLOGICAL NITROGEN FIXATION (IBADAN), NIR/5/013	EXPERTS (CC)	4/00	- -	-1/27
RADIOIMMUNOASSAY IN ANIMAL PRODUCTION, NIR/5/014	EXPERTS (CC)	11/00	- -	-0/24
	EQUIPMENT (CC)	75,000	- -	28,000
	FELLOWSHIPS (CC)	28,350	- -	-10,800
NITROGEN FIXATION - MIXED CROPPING SYSTEM, NIR/5/015	EQUIPMENT (CC)	20,000	86-05-08	5,000
RADIATION PROTECTION, NIR/9/003	EXPERTS (CC)	18/00	- -	-7/00
	EQUIPMENT (CC)	50,000	- -	20,600
PAKISTAN				
INIS DATA BASE, PAK/0/003	EQUIPMENT (CC)	181,000	- -	20,000
SECONDARY STANDARDS DOSIMETRY	EXPERTS (CC)	7/00	- -	-2/00
LABORATORY, PAK/1/019	EQUIPMENT (CC)	339,300	- -	13,800
URANIUM PROSPECTION, PAK/3/005	EQUIPMENT (CC)		- -	3,500
NUCLEAR EQUIPMENT MAINTENANCE, PAK/4/029	FELLOWSHIPS (CC)	10,800	- -	-10,800
ISOTOPE-AIDED STUDIES ON SALINE SOILS, PAK/5/022	EXPERTS (CC)	1/00	- -	-0/23
RADIOIMMUNOASSAY, PAK/6/007	FELLOWSHIPS (CC)	10,800	- -	-10,800
NUCLEAR CARDIOLOGY SERVICES, PAK/6/009	EXPERTS (CC)	11/00	- -	3/00
GAMMA RADIOGRAPHY, PAK/8/006	EQUIPMENT (NCC)	23,000	- -	4,000
PANAMA				
RADIOPHARMACEUTICALS, PAN/2/003	EQUIPMENT (CC)	184,100	- -	-35,000
	EQUIPMENT (NCC)	5,900	- -	-71
NUCLEAR ANALYTICAL TECHNIQUES, PAN/2/004	EXPERTS (CC)	7/00	- -	-1/05
RADIOISOTOPES IN AGRICULTURE, PAN/5/003	EQUIPMENT (CC)	102,700	- -	10,000
GENETIC IMPROVEMENT OF BANANAS, PLANTAINS AND SUGAR-CANE, PAN/5/004	EQUIPMENT (CC)	135,500	- -	12,800
NUCLEAR MEDICINE, PAN/6/005	EXPERTS (CC)	7/05	- -	-0/12
	FELLOWSHIPS (CC)	33,300	- -	-21,600

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PARAGUAY				
NUCLEAR SCIENCE, PAR/1/002	EXPERTS (CC)	15/00	- -	1/00
	EQUIPMENT (CC)	358,000	- -	13,000
	FELLOWSHIPS (CC)	5,400	- -	-5,400
RADIOCHEMISTRY LABORATORY, PAR/2/002	EQUIPMENT (NCC)	50,000	- -	-23,000
NUCLEAR MEDICINE, PAR/6/006	FELLOWSHIPS (CC)	5,400	- -	-5,400
NON-DESTRUCTIVE TESTING, PAR/8/004	EQUIPMENT (NCC)	10,000	- -	17,000
PERU				
DEVELOPMENT OF NUCLEAR RESEARCH CENTRE, PER/0/011	EXPERTS (CC)	3/00	- -	-1/00
NUCLEAR ENERGY PROGRAMME MONITORING AND SUPPORT, PER/0/016	EXPERTS (CC)	18/00	- -	34/00
	EQUIPMENT (CC)	45,000	- -	-15,000
PRODUCTION AND USE OF RADIOISOTOPES, PER/2/010	EXPERTS (CC)		- -	1/00
	EQUIPMENT (CC)	110,000	- -	-36,100
	EQUIPMENT (NCC)	8,000	- -	-8,000
URANIUM EXPLORATION, PER/3/012	EXPERTS (CC)	14/00	- -	-4/17
	FELLOWSHIPS (CC)	3,600	- -	3,000
NUCLEAR POWER PLANNING, PER/4/008	EXPERTS (CC)	22/00	- -	-3/00
MEDFLY CONTROL, PER/5/012	EXPERTS (CC)	144/00	- -	17/16
	EQUIPMENT (CC)	1,030,600	- -	52,100
MEDICAL APPLICATION OF RADIOISOTOPES, PER/6/009	EXPERTS (CC)	6/00	- -	-1/00
MULTI-PURPOSE IRRADIATION PLANT, PER/8/004	EQUIPMENT (NCC)	800,000	- -	90,000
ISOTOPES IN HYDROLOGY, PER/8/005	EXPERTS (CC)	1/00	86-03-13	-0/14
NUCLEAR SAFETY, PER/9/011	EXPERTS (CC)	8/10	- -	-1/00
	EQUIPMENT (CC)	60,000	- -	7,000
NUCLEAR POWER PLANT SITING, PER/9/012	EXPERTS (CC)	8/16	- -	-1/29
RADIATION PROTECTION, PER/9/014	EQUIPMENT (CC)	10,000	- -	3,500
	EQUIPMENT (NCC)	13,000	- -	-3,183
ENVIRONMENTAL RADIOACTIVITY, PER/9/015	EQUIPMENT (CC)	52,000	- -	3,000
PHILIPPINES				
SECONDARY STANDARDS DOSIMETRY LABORATORY, PHI/1/012	FELLOWSHIPS (CC)	11,250	- -	-5,400
NUCLEAR PHYSICS RESEARCH, PHI/1/013	EQUIPMENT (CC)	4,600	- -	2,700
QUALITY ASSURANCE/QUALITY CONTROL TRAINING CENTRE, PHI/4/016	EXPERTS (CC)	25/15	- -	-5/00
	EQUIPMENT (CC)	75,000	- -	37,500
NUCLEAR ENGINEERING EDUCATION, PHI/4/017	EQUIPMENT (CC)	90,000	- -	2,000
MEDICAL PHYSICS TRAINING, PHI/6/010	EXPERTS (CC)	31/00	- -	1/00
	FELLOWSHIPS (CC)	57,600	- -	-10,800
RADIOACTIVE WASTE MANAGEMENT, PHI/9/016	EQUIPMENT (CC)	30,000	- -	2,000
DETERMINATION OF RADON AND THORON LEVELS, PHI/9/017	EQUIPMENT (CC)	14,000	- -	13,100
	FELLOWSHIPS (CC)	10,800	- -	-10,800
POLAND				
NEUTRON STANDARDIZATION LABORATORY, POL/1/005	EXPERTS (CC)	1/00	- -	-0/14
	EQUIPMENT (CC)	42,000	- -	3,220
MASS SPECTROMETRY, POL/1/006	EQUIPMENT (NCC)	304,945	- -	25,000
ELECTRON BEAM RADIATION PROCESSING, POL/4/003	EQUIPMENT (NCC)	1,033,000	- -	23,000
PLANT BREEDING USING INDUCED MUTATIONS, POL/5/006	EXPERTS (CC)	5/00	- -	-1/01
	EQUIPMENT (CC)	260,000	- -	17,000

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POLAND (cont'd.)				
COMPUTERIZED TOMOGRAPHY, POL/6/002	EXPERTS (CC)	2/00	- -	4/00
	FELLOWSHIPS (CC)	25,950	- -	-13,000
FOOD IRRADIATION, POL/8/006	EXPERTS (CC)	2/00	- -	-2/00
	EQUIPMENT (CC)		- -	13,800
PORTUGAL				
NUCLEAR POWER PROGRAMME, POR/0/003	EXPERTS (CC)	2/15	- -	-0/18
SECONDARY STANDARDS DOSIMETRY	EXPERTS (CC)	7/00	- -	-3/00
LABORATORY, POR/1/002	EQUIPMENT (CC)	187,000	- -	27,600
ACCELERATOR UTILIZATION, POR/1/003	EXPERTS (CC)	4/00	- -	-1/00
	EQUIPMENT (CC)	145,000	- -	2,000
RADIOPHARMACEUTICAL DEVELOPMENT, POR/2/010	EXPERTS (CC)		- -	0/05
URANIUM EXPLORATION (DGGM), POR/3/007	EXPERTS (CC)	5/00	- -	1/00
	EQUIPMENT (CC)	60,000	- -	-6,900
REACTOR PNEUMATIC TRANSFER SYSTEM,	EXPERTS (CC)	1/00	- -	2/27
POR/4/010	EQUIPMENT (CC)	50,000	- -	5,000
NUCLEAR FUEL CYCLE DATA BANK, POR/4/011	EXPERTS (CC)	3/00	- -	-2/27
IRRADIATION FACILITY, POR/8/002	EQUIPMENT (NCC)	698,500	- -	5,000
ISOTOPE HYDROLOGY, POR/8/004	FELLOWSHIPS (CC)	15,300	- -	-3,600
NUCLEAR POWER PLANT SITING (EDP), POR/9/005	EXPERTS (CC)	5/00	- -	0/18
ROMANIA				
APPLIED ACTINIDE RESEARCH, ROM/1/005	EXPERTS (CC)	3/05	- -	-0/27
	EQUIPMENT (CC)	607,900	- -	17,000
	FELLOWSHIPS (CC)	27,000	- -	-17,000
DOSIMETRY INSTRUMENTATION, ROM/1/007	EXPERTS (CC)	6/00	- -	-1/00
	EQUIPMENT (CC)	280,000	- -	5,000
X-RAY FLUORESCENCE SPECTROMETRY,	EXPERTS (CC)	1/00	- -	-1/00
ROM/1/008	EQUIPMENT (CC)	45,000	- -	6,900
HEAVY ION PHYSICS, ROM/1/009	EXPERTS (CC)	2/00	- -	-1/00
	EQUIPMENT (CC)	19,000	- -	64,100
NUCLEAR TECHNIQUES IN MATERIALS ANALYSIS, ROM/2/007	EQUIPMENT (CC)	49,400	- -	-3,069
NUCLEAR TECHNIQUES IN MINING, ROM/3/002	EXPERTS (CC)	15/00	- -	-2/27
	FELLOWSHIPS (CC)	26,550	- -	-10,800
NUCLEAR POWER, ROM/4/012	EXPERTS (CC)	6/00	- -	-1/00
	FELLOWSHIPS (CC)	34,200	- -	-10,800
SENEGAL				
NUCLEAR ANALYTICAL LABORATORY, SEN/1/003	EXPERTS (CC)	10/00	- -	-4/29
SOIL SCIENCE, SEN/5/016	EXPERTS (CC)	2/10	- -	-0/18
ISOTOPE HYDROLOGY, SEN/8/003	EXPERTS (CC)	1/00	- -	0/09
SIERRA LEONE				
RADIOISOTOPES IN MEDICINE, SIL/6/003	EQUIPMENT (CC)	73,500	- -	6,500

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SINGAPORE				
NUCLEAR ANALYTICAL TECHNIQUES, SIN/1/004	EQUIPMENT (CC)	146,500	- -	-10,000
RADIOISOTOPES IN HYDROLOGY, SIN/8/008	EXPERTS (CC)	11/00	- -	-1/17
SRI LANKA				
NUCLEAR SCIENCE TRAINING, SRL/0/002	EQUIPMENT (CC)	145,000	- -	50,000
	EQUIPMENT (NCC)	60,000	- -	-60,000
RADIATION DOSIMETRY, SRL/1/005	EXPERTS (CC)	6/00	- -	-1/00
	EQUIPMENT (CC)	80,000	- -	12,000
NUCLEAR RAW MATERIALS, SRL/3/004	EXPERTS (CC)	6/00	- -	-1/00
	FELLOWSHIPS (CC)	5,400	- -	-5,400
CROP WATER AND SOIL MANAGEMENT, SRL/5/016	EXPERTS (CC)	8/00	- -	-1/00
RADIOISOTOPES IN ANIMAL SCIENCE, SRL/5/018	EQUIPMENT (CC)	65,000	- -	6,500
NUCLEAR MEDICINE, SRL/6/010	FELLOWSHIPS (CC)	27,000	- -	-27,000
RADIATION THERAPY, SRL/6/014	EQUIPMENT (CC)	58,000	- -	47,000
RADIOIMMUNOASSAY IN MEDICAL DIAGNOSIS, SRL/6/015	FELLOWSHIPS (CC)	29,700	- -	-18,000
RADIATION PROCESSING/VULCANIZATION OF NATURAL RUBBER LATEX, SRL/8/010	EQUIPMENT (CC)	93,000	- -	4,000
NON-DESTRUCTIVE TESTING IN INDUSTRY, SRL/8/011	EXPERTS (CC)	2/00	- -	0/15
SUDAN				
NUCLEAR SCIENCE LABORATORY, SUD/0/006	EXPERTS (CC)	13/00	- -	2/00
	EQUIPMENT (CC)	489,900	- -	30,000
	FELLOWSHIPS (CC)	56,250	- -	-27,000
NUCLEAR INSTRUMENTATION, SUD/4/003	EXPERTS (CC)	2/00	- -	-1/00
RADIOISOTOPES IN ANIMAL SCIENCE, SUD/5/007	EXPERTS (CC)	6/00	- -	-1/13
	EQUIPMENT (CC)	162,600	- -	-5,000
PESTICIDE RESIDUES, SUD/5/012	EQUIPMENT (CC)	100,000	- -	-21,500
	EQUIPMENT (NCC)	5,000	- -	-5,000
ISOTOPES IN ANIMAL SCIENCE, SUD/5/013	EQUIPMENT (CC)	31,620	- -	1,500
ANIMAL SCIENCE, SUD/5/016	EXPERTS (CC)	3/00	- -	-0/22
	EQUIPMENT (CC)	15,000	- -	8,000
NUCLEAR MEDICINE, SUD/6/009	EXPERTS (CC)	5/15	- -	-1/24
	EQUIPMENT (CC)	45,000	- -	7,000
USE OF GAMMA CAMERA, SUD/6/012	EQUIPMENT (CC)	185,000	- -	-33,803
NUCLEAR MEDICINE SERVICES, SUD/6/013	EXPERTS (CC)	1/00	- -	-0/19
ISOTOPES IN HYDROLOGY, SUD/8/004	EXPERTS (CC)	8/15	- -	-2/00
	EQUIPMENT (CC)	96,700	- -	6,900
	FELLOWSHIPS (CC)	9,000	- -	12,200
RADIATION PROTECTION, SUD/9/004	EQUIPMENT (CC)	93,000	- -	4,000
SYRIAN A.R.				
NUCLEAR ENERGY PLANNING, SYR/0/003	EXPERTS (CC)	7/00	- -	-3/02
NUCLEAR TRAINING LABORATORY, SYR/0/004	EXPERTS (CC)	7/00	- -	-5/00
	EQUIPMENT (CC)	83,300	- -	-25,000
	FELLOWSHIPS (CC)	9,000	- -	-9,000
NUCLEAR ANALYTICAL LABORATORY, SYR/1/002	EXPERTS (CC)	13/00	- -	-0/25
	EQUIPMENT (CC)	253,100	- -	53,050

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SYRIAN A.R. (cont'd.)				
RESEARCH REACTOR, SYR/4/002	EXPERTS (CC)	4/00	- -	3/02
	SUB-CONTRACTS (CC)	35,950	- -	500
	SUB-CONTRACTS (NCC)		- -	34,500
NUCLEAR ELECTRONICS, SYR/4/003	FELLOWSHIPS (CC)	10,800	- -	-10,800
SOIL NITROGEN STUDIES, SYR/5/009	EQUIPMENT (CC)	50,000	- -	35,800
	FELLOWSHIPS (CC)	6,000	- -	-6,000
RADIATION PROTECTION, SYR/9/003	EXPERTS (CC)	2/00	- -	-1/00
	EQUIPMENT (CC)	245,000	- -	21,900
NUCLEAR SAFETY, SYR/9/005	FELLOWSHIPS (CC)	34,200	- -	-10,800
THAILAND				
SECONDARY STANDARDS DOSIMETRY	EQUIPMENT (CC)	204,000	- -	24,000
LABORATORY, THA/1/004	FELLOWSHIPS (CC)	14,400	- -	-6,700
NUCLEAR PHYSICS, THA/1/005	EXPERTS (CC)	16/00	- -	-1/14
	EQUIPMENT (CC)	230,000	- -	15,000
	EQUIPMENT (NCC)	70,000	- -	3,600
NUCLEAR RAW MATERIAL PROSPECTION, THA/3/003	EQUIPMENT (CC)	109,000	- -	1,500
NUCLEAR ELECTRONICS TRAINING LABORATORY, THA/4/009	EXPERTS (CC)	6/00	- -	0/05
RADIOISOTOPES IN AGRICULTURE, THA/5/026	EXPERTS (CC)	8/00	- -	-2/00
	EQUIPMENT (CC)	80,000	- -	13,900
ISOTOPES IN ANIMAL SCIENCE, THA/5/028	EQUIPMENT (CC)	50,000	- -	8,500
	FELLOWSHIPS (CC)	18,000	- -	-7,500
NUCLEAR MEDICINE, THA/6/016	EXPERTS (CC)	6/00	- -	-1/00
	EQUIPMENT (CC)	125,000	- -	7,800
MEDICAL PHYSICS (SSDL), THA/6/017	EQUIPMENT (CC)	73,000	- -	500
DIGOXIN RADIOIMMUNOASSAY QUALITY CONTROL, THA/6/021	FELLOWSHIPS (CC)	10,800	- -	-10,800
TUNISIA				
NUCLEAR POWER PLANNING, TUN/0/003	EXPERTS (CC)	3/00	- -	-0/25
NUCLEAR LEGISLATION AND REGULATION, TUN/0/004	EXPERTS (CC)	2/00	- -	-0/23
STUDIES OF PLANT WATER USE IN ARID AND	EXPERTS (CC)	2/00	- -	-1/00
SEMI-ARID REGIONS, TUN/5/006	EQUIPMENT (CC)	20,000	- -	12,800
NUCLEAR TECHNIQUES IN AGRICULTURE, TUN/5/007	EXPERTS (CC)	1/00	- -	-1/00
NUCLEAR MEDICINE, TUN/6/002	EXPERTS (CC)	4/15	- -	-1/00
	EQUIPMENT (CC)	99,500	- -	6,900
RADIOISOTOPES IN INDUSTRY, TUN/8/007	EQUIPMENT (CC)	195,500	- -	-1,839
HYDROLOGY, TUN/8/009	EXPERTS (CC)	6/09	- -	-4/00
	EQUIPMENT (CC)	75,000	- -	-10,000
	FELLOWSHIPS (CC)	3,000	- -	-1,200
NATIONAL RADIATION PROTECTION CENTRE,	EXPERTS (CC)	6/05	- -	-1/23
TUN/9/005	EQUIPMENT (CC)	176,000	- -	8,000
	FELLOWSHIPS (CC)	9,000	- -	4,500
TURKEY				
EXPLOITATION OF URANIUM RESOURCES,	EQUIPMENT (CC)	62,000	- -	-20,530
TUR/3/006	FELLOWSHIPS (CC)	15,300	- -	-10,800
AERIAL SPECTROMETRY, TUR/3/007	EXPERTS (CC)	17/00	- -	-3/00
	EQUIPMENT (CC)	290,000	- -	124,430

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TURKEY (cont'd.)				
NUCLEAR TECHNIQUES IN ANIMAL SCIENCE, TUR/5/012	EXPERTS (CC)	18/00	- -	-1/00
	EQUIPMENT (CC)	112,000	- -	6,900
NON-DESTRUCTIVE TESTING, TUR/8/008	EQUIPMENT (CC)	55,000	- -	2,750
NUCLEAR POWER PROGRAMME, TUR/9/005	EXPERTS (CC)	100/06	- -	-4/22
	EQUIPMENT (CC)	119,090	- -	28,800
	FELLOWSHIPS (CC)	132,479	86-08-15	-3,910
RADIOACTIVE WASTE DISPOSAL, TUR/9/007	EXPERTS (CC)	5/00	- -	-0/06
	EQUIPMENT (CC)	60,000	- -	-9,000
ENVIRONMENTAL MONITORING, TUR/9/010	EXPERTS (CC)	1/00	86-05-27	-0/20
	EQUIPMENT (CC)	18,100	86-05-27	4,600
UGANDA				
ANIMAL SCIENCE, UGA/5/009	EXPERTS (CC)	5/00	- -	-1/26
	EQUIPMENT (CC)	56,000	- -	-5,156
	EQUIPMENT (NCC)	43,000	- -	-14,000
U.A. EMIRATES				
ISOTOPES IN HYDROLOGY, UAE/8/002	EXPERTS (CC)	2/15	- -	-0/11
	EQUIPMENT (CC)	41,550	- -	4,600
U.R. TANZANIA				
NUCLEAR PHYSICS, URT/1/003	EXPERTS (CC)	16/11	- -	1/00
	EQUIPMENT (CC)	237,100	- -	3,000
	EQUIPMENT (NCC)	97,000	- -	11,500
ACARICIDE RESIDUES IN MEAT AND MILK, URT/5/006	EXPERTS (CC)	11/00	- -	-2/00
	EQUIPMENT (CC)	117,000	- -	10,350
TSETSE FLY ERADICATION, URT/5/007	EQUIPMENT (CC)	132,000	- -	25,500
LIVESTOCK REPRODUCTION AND HEALTH, URT/5/008	EXPERTS (CC)	10/00	- -	-1/00
EPIDEMIOLOGY OF MALARIA, URT/6/003	EQUIPMENT (CC)	76,469	86-08-07	1,000
RADIOIMMUNOASSAY LABORATORY, URT/6/004	EXPERTS (CC)	7/00	- -	-2/00
	EQUIPMENT (CC)	24,000	- -	2,500
RADIATION PROTECTION, URT/9/002	EQUIPMENT (CC)	60,000	- -	9,000
	FELLOWSHIPS (CC)	27,000	- -	-8,111
URUGUAY				
RADIOCHEMISTRY, URU/2/006	EQUIPMENT (CC)	75,000	86-07-18	-8,937
URANIUM PROSPECTION, URU/3/007	EXPERTS (CC)	4/00	- -	-0/24
	FELLOWSHIPS (CC)	3,000	- -	-3,000
NUCLEAR POWER FEASIBILITY STUDIES, URU/4/007	EXPERTS (CC)	3/00	- -	-2/00
RESEARCH REACTOR MODERNIZATION, URU/4/008	EXPERTS (CC)	5/00	- -	-2/00
	EQUIPMENT (CC)	20,000	- -	-15,000
RADIOISOTOPES IN ANIMAL SCIENCE, URU/5/013	EXPERTS (CC)	6/25	- -	-2/00
	EQUIPMENT (CC)	92,000	- -	2,000
NUCLEAR MEDICINE, URU/6/010	EXPERTS (CC)	9/00	- -	-1/20
	EQUIPMENT (NCC)	37,000	- -	-37,000
RADIOPHARMACOLOGY (DR), URU/6/013	EXPERTS (CC)	6/00	- -	-1/00
	EQUIPMENT (CC)	125,200	- -	-35,000
	FELLOWSHIPS (CC)	17,100	- -	-5,400

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VENEZUELA				
SECONDARY STANDARDS DOSIMETRY	EXPERTS (CC)	7/00	- -	-2/00
LABORATORY, VEN/1/004	EQUIPMENT (CC)	203,800	- -	15,000
THERMOLUMINESCENCE DOSIMETRY, VEN/1/005	EQUIPMENT (CC)	19,800	- -	30,000
IMPROVEMENT OF LEGUMINOUS AND OIL SEED CROPS, VEN/5/008	EXPERTS (CC)	26/15	- -	7/00
CENTRE FOR NUCLEAR AGRICULTURE,	EXPERTS (CC)	51/00	- -	-9/00
VEN/5/009	EQUIPMENT (CC)	202,000	- -	-38,000
SEDIMENTOLOGICAL STUDIES, VEN/8/007	EXPERTS (CC)	4/00	- -	-0/24
	EQUIPMENT (CC)	67,000	- -	14,000
VIET NAM				
NUCLEAR INSTITUTE DEVELOPMENT, VIE/0/002	EQUIPMENT (CC)	296,200	- -	-18,000
	EQUIPMENT (NCC)	110,000	- -	105,000
NUCLEAR INFORMATION CENTRE, VIE/0/003	EQUIPMENT (CC)	15,000	- -	3,000
	FELLOWSHIPS (CC)	7,200	- -	-7,200
NUCLEAR PHYSICS (DALAT UNIVERSITY), VIE/1/005	EQUIPMENT (CC)	30,000	- -	2,200
NUCLEAR ANALYTICAL TECHNIQUES, VIE/3/002	EXPERTS (CC)	1/00	- -	-0/08
NUCLEAR INSTRUMENTATION, VIE/4/003	EQUIPMENT (CC)	100,000	- -	2,000
NUCLEAR MEDICINE (HUE), VIE/6/012	EQUIPMENT (CC)	35,000	- -	16,000
FOOD IRRADIATION, VIE/8/004	EQUIPMENT (NCC)	950,000	- -	100,000
YUGOSLAVIA				
RESEARCH REACTOR MODERNIZATION,	EQUIPMENT (CC)	813,500	- -	-800,000
YUG/4/014	EQUIPMENT (NCC)	146,500	- -	800,000
REACTOR FUEL MANAGEMENT, YUG/4/018	EXPERTS (CC)	2/15	- -	-0/09
	EQUIPMENT (CC)		- -	6,500
PREVLAKA NUCLEAR POWER PLANT, YUG/4/021	EXPERTS (CC)	82/00	- -	-1/00
	EQUIPMENT (CC)	47,500	- -	6,900
HEAT EXCHANGER CORROSION STUDIES, YUG/4/023	EQUIPMENT (CC)	185,524	- -	9,743
NUCLEAR POWER PLANT IN-SERVICE	EXPERTS (CC)	5/00	- -	-4/28
INSPECTION, YUG/4/024	EQUIPMENT (CC)	386,000	86-06-05	43,790
	FELLOWSHIPS (CC)	9,750	- -	-9,750
PLANT BREEDING, YUG/5/027	EQUIPMENT (CC)	60,000	- -	2,000
FAILED FUEL DETECTION, YUG/9/021	EQUIPMENT (CC)	100,000	- -	14,464
ZAIRE				
RADIOIMMUNOASSAY KIT PRODUCTION,	EXPERTS (CC)	12/00	- -	-2/17
ZAI/2/010	EQUIPMENT (CC)	49,000	- -	2,900
RADIOISOTOPES IN AGRICULTURE, ZAI/5/003	EQUIPMENT (CC)	22,500	- -	2,000
FOOD PRESERVATION, ZAI/5/007	EXPERTS (CC)	1/14	- -	-0/22
IMPROVEMENT OF GRAIN LEGUMES, ZAI/5/008	EQUIPMENT (CC)	10,000	- -	4,000
	FELLOWSHIPS (CC)	22,500	- -	-10,800
ACTIVATION ANALYSIS IN MINING, ZAI/8/008	EXPERTS (CC)	1/00	- -	-0/26
RADIOACTIVITY MONITORING, ZAI/9/003	EXPERTS (CC)	4/00	- -	-1/00
	FELLOWSHIPS (CC)	50,400	- -	-18,000
RESEARCH REACTOR SAFETY, ZAI/9/004	EXPERTS (CC)	1/00	- -	-0/20

Recipient Project title and code	Component	Existing approval 1 January 1986	Approval as of	Project changes in 1986
ZAMBIA				
NUCLEAR ANALYTICAL LABORATORY, ZAM/0/005	FELLOWSHIPS (CC)	33,300	- -	-21,600
URANIUM RESOURCES, ZAM/3/005	FELLOWSHIPS (CC)	34,200	- -	-2,000
NUCLEAR EQUIPMENT MAINTENANCE, ZAM/4/002	EQUIPMENT (CC)	28,000	- -	2,500
RADIOISOTOPES IN AGRICULTURE (FERTILIZER	EXPERTS (CC)	19/00	- -	-0/24
STUDIES), ZAM/5/004	EQUIPMENT (CC)	129,000	- -	-25,254
	EQUIPMENT (NCC)	10,000	- -	-7,396
TSETSE FLY CONTROL, ZAM/5/009	FELLOWSHIPS (CC)	13,500	- -	-13,500
RADIOISOTOPES IN ANIMAL SCIENCE,	EXPERTS (CC)	5/00	- -	-0/20
ZAM/5/010	EQUIPMENT (CC)	74,000	- -	4,600
INDUCED MUTATION BREEDING, ZAM/5/014	FELLOWSHIPS (CC)	1,800	- -	-1,800
FATE OF PESTICIDES, ZAM/5/015	EXPERTS (CC)	1/00	- -	-0/15
MULTI-PURPOSE GAMMA IRRADIATION	FELLOWSHIPS (CC)	81,900	- -	-21,600
FACILITY, ZAM/8/003				
GROUNDWATER STUDIES, ZAM/8/005	EXPERTS (CC)	3/00	- -	-0/16
	FELLOWSHIPS (CC)	10,800	- -	-10,800
REGIONAL AFRICA				
MICROCOMPUTERS, RAF/0/002	EQUIPMENT (CC)	176,600	- -	18,000
NUCLEAR TECHNIQUES IN INSECT PHYSIOLOGY	SUB-CONTRACTS (CC)		- -	17,000
AND BIOCHEMISTRY, RAF/5/004				
FOOD PRESERVATION, RAF/5/005	EXPERTS (CC)	3/00	- -	3/00
REPRODUCTION, NUTRITION AND HEALTH OF	EXPERTS (CC)	29/00	- -	-4/16
LIVESTOCK, RAF/5/006	EQUIPMENT (CC)	40,000	- -	5,000
REGIONAL ASIA AND THE PACIFIC				
RADIOIMMUNOASSAY OF THYROID HORMONES,	EXPERTS (CC)	32/00	- -	3/00
RAS/6/011	FELLOWSHIPS (CC)	258,750	- -	-57,600
	TRAINING COURSES (CC)		- -	35,100
RADIOISOTOPES IN INDUSTRY, RAS/8/011	EXPERTS (CC)	147/15	86-06-10	1/15
	TRAINING COURSES (CC)	643,482	86-02-03	3,000
REGIONAL EUROPE				
COMPUTER-AIDED SAFETY ANALYSIS,	EXPERTS (CC)	69/20	- -	15/00
RER/9/002	EQUIPMENT (CC)	171,600	- -	-154,000
	SUB-CONTRACTS (CC)	420,000	- -	273,000
REGIONAL LATIN AMERICA				
NUCLEAR SCIENCE AND TECHNOLOGY	EXPERTS (CC)	58/00	- -	-1/00
DEVELOPMENT (ARCAL), RLA/0/006	EQUIPMENT (CC)	211,200	- -	3,000
NUCLEAR INFORMATION (ARCAL X), RLA/0/009	EQUIPMENT (CC)	50,000	- -	3,300
	FELLOWSHIPS (CC)	21,600	- -	-21,600
	TRAINING COURSES (CC)		- -	21,600
	SUB-CONTRACTS (CC)	25,000	- -	2,000
NUCLEAR INSTRUMENTATION (ARCAL II),	EXPERTS (CC)	12/00	- -	-2/24
RLA/4/006	EQUIPMENT (CC)	115,000	- -	22,000
	FELLOWSHIPS (CC)	82,800	- -	-36,000
	TRAINING COURSES (CC)		- -	78,000
RADIOIMMUNOASSAY IN ANIMAL REPRODUCTION	EXPERTS (CC)	19/00	- -	5/00
(ARCAL III), RLA/5/019	EQUIPMENT (CC)	20,000	- -	8,000
	FELLOWSHIPS (CC)	71,100	- -	-36,000
	TRAINING COURSES (CC)		- -	32,800

Recipient Project title and code	Component	Existing approval 1 January 1986	Approval as of	Project changes in 1986
REGIONAL LATIN AMERICA (cont'd.)				
IMPROVEMENT OF CEREALS THROUGH MUTATION	EQUIPMENT (CC)	40,000	86-07-18	45,000
BREEDING (ARCAL VII), RLA/5/021	TRAINING COURSES (CC)	45,000	86-07-18	-45,000
QUALITY CONTROL OF NUCLEAR MEDICINE	FELLOWSHIPS (CC)	10,800	- -	-10,800
PROCEDURES IN VIVO, RLA/6/006				
NON-DESTRUCTIVE TESTING IN LATIN	EXPERTS (CC)	124/10	- -	37/15
AMERICA, RLA/8/005	EQUIPMENT (CC)	101,800	- -	-47,350
	FELLOWSHIPS (CC)	43,200	- -	-43,200
	TRAINING COURSES (CC)	70,000	86-10-27	153,800
RADIATION PROTECTION (ARCAL I),	EXPERTS (CC)	5/00	- -	-2/03
RLA/9/009	FELLOWSHIPS (CC)	71,100	- -	-36,000
	TRAINING COURSES (CC)		- -	50,600
INTERREGIONAL				
ENERGY AND NUCLEAR POWER PLANNING,	EXPERTS (CC)	64/00	- -	1/00
INT/0/037				
PRE-PROJECT ASSISTANCE, INT/0/038	EXPERTS (CC)	30/00	- -	5/00
	TRAINING COURSES (CC)	50,400	86-01-02	-20,700
NUCLEAR DATA TECHNIQUES AND	EXPERTS (CC)	31/05	- -	4/15
INSTRUMENTATION, INT/1/018	EQUIPMENT (CC)	447,400	- -	-6,900
EQUIPMENT MAINTENANCE TRAINING,	EXPERTS (CC)	2/00	- -	-2/00
INT/1/028	EQUIPMENT (CC)		- -	9,000
	EQUIPMENT (NCC)	89,146	- -	7,000
NUCLEAR INSTRUMENT MAINTENANCE,	EXPERTS (CC)	71/00	- -	2/00
INT/4/054	EQUIPMENT (CC)	335,000	- -	-13,800
NUCLEAR POWER PROGRAMME IMPLEMENTATION,	EXPERTS (CC)	56/00	- -	-4/00
INT/4/079				
RADIATION PROTECTION SERVICES, INT/9/064	EXPERTS (CC)	47/00	- -	3/00
	EQUIPMENT (CC)	68,400	- -	6,900
OPERATIONAL SAFETY OF NUCLEAR	EXPERTS (CC)	103/00	- -	4/20
INSTALLATIONS, INT/9/065				
CO-ORDINATION OF SAFETY-RELATED	EXPERTS (CC)	22/00	- -	-0/20
ASSISTANCE, INT/9/067				
TOTALS				
	MAN-MONTHS (CC)	2,886/27		-113/01
	EQUIPMENT (CC)	29,518,241		967,924
	EQUIPMENT (NCC)	11,901,449		3,151,803
	FELLOWSHIPS (CC)	2,513,329		-1,059,938
	TRAINING COURSES (CC)	808,882		345,200
	SUB-CONTRACTS (CC)	765,550		442,500

ANNEX XI

PROJECTS REPHASED DURING 1986

Recipient Project title and code	Com- ponent	Allotted/ rephased	Current	Programme year 1987	1988	1989-90
ALGERIA						
NUCLEAR TRACK DETECTOR LABORATORY,	Experts	Allotted	2/00	-	-	-
ALG/1/006	(m/m)	Rephased	-1/00	1/00	-	-
METROLOGY AND MAINTENANCE OF NUCLEAR	Experts	Allotted	4/00	2/00	-	-
INSTRUMENTATION, ALG/1/007	(m/m)	Rephased	-3/00	3/00	-	-
RADIATION PROTECTION, ALG/9/006	Experts	Allotted	3/22	-	-	-
	(m/m)	Rephased	-2/00	2/00	-	-
BANGLADESH						
RESEARCH REACTOR COMMISSIONING,	Experts	Allotted	4/00	-	-	-
BGD/4/008	(m/m)	Rephased	-2/00	2/00	-	-
RESEARCH REACTOR UTILIZATION, BGD/4/009	Experts	Allotted	7/00	5/00	-	-
	(m/m)	Rephased	-4/00	-	4/00	
FOOD IRRADIATION, BGD/5/010	Experts	Allotted	4/00	2/00	-	-
	(m/m)	Rephased	-1/00	1/00	-	-
	Equipment	Allotted	86,000	50,000	-	-
	(CC)	Rephased	-30,000	30,000	-	-
BOLIVIA						
X-RAY FLUORESCENCE, BOL/2/008	Experts	Allotted	4/00	-	-	-
	(m/m)	Rephased	-3/00	3/00	-	-
NUCLEAR MEDICINE CENTRE UPGRADING,	Equipment	Allotted	70,000	-	-	-
BOL/6/013	(CC)	Rephased	-18,000	18,000	-	-
BRAZIL						
TECHNICIAN TRAINING, BRA/0/009	Experts	Allotted	10/06	4/00	-	-
	(m/m)	Rephased	-3/00	-	3/00	-
ISOTOPE-AIDED STUDIES OF THE BRAZILIAN	Experts	Allotted	35/00	16/00	12/00	-
AMAZON, BRA/0/010	(m/m)	Rephased	5/00	-5/00	-	-
	Equipment	Allotted	480,000	250,000	150,000	
	(CC)	Rephased	80,000	-80,000	-	-
NUCLEAR POWER PLANT COMPONENT TESTING,	Experts	Allotted	3/00	-	-	-
BRA/4/036	(m/m)	Rephased	-2/00	2/00	-	-
BULGARIA						
NUCLEAR TECHNIQUES IN CROP PRODUCTION,	Equipment	Allotted	30,000	30,000	30,000	60,000
BUL/5/008	(CC)	Rephased	20,000	-20,000	-	-
BURMA						
TISSUE STERILIZATION, BUR/7/004	Experts	Allotted	4/00	-	-	-
	(m/m)	Rephased	-1/00	1/00	-	-
ENVIRONMENTAL RADIATION MONITORING,	Experts	Allotted	6/00	-	-	-
BUR/9/002	(m/m)	Rephased	-5/00	5/00	-	-
CHILE						
IMPURITIES IN URANIUM COMPOUNDS,	Experts	Allotted	4/00	-	-	-
CHI/3/008	(m/m)	Rephased	-2/00	2/00	-	-
THERMOHYDRAULIC ANALYSIS FOR CORE	Experts	Allotted	2/00	-	-	-
CONVERSION, CHI/4/011	(m/m)	Rephased	-1/00	1/00	-	-

Recipient Project title and code	Com- ponent	Allotted/ rephased	Current	Programme year 1987	 1988	 1989-90
CHILE (cont'd.)						
REPRODUCTIVE PHYSIOLOGY OF THE VICUNA,	Equipment	Allotted	50,000	25,000	20,000	-
CHI/5/013	(CC)	Rephased	10,000	-10,000	-	-
COLOMBIA						
NUCLEAR INSTRUMENTATION, COL/4/007	Equipment	Allotted	-	50,000	35,000	-
	(CC)	Rephased	15,000	-15,000	-	-
RADIATION-INDUCED MUTATION BREEDING,	Fellowships	Allotted	10,800	23,400	-	-
COL/5/008	(CC)	Rephased	13,200	-13,200	-	-
COSTA RICA						
APPLIED NUCLEAR PHYSICS, COS/1/005	Experts	Allotted	7/00	1/00	-	-
	(m/m)	Rephased	-1/00	1/00	-	-
COTE D'IVOIRE						
NUCLEAR SCIENCE LABORATORY, IVC/0/003	Experts	Allotted	16/00	-	-	-
	(m/m)	Rephased	-3/00	3/00	-	-
NUCLEAR METHODS IN NUTRITIONAL ANALYSIS,	Experts	Allotted	1/00	2/00	1/00	-
IVC/5/015	(m/m)	Rephased	-1/00	1/00	-	-
CUBA						
RADIATION PRESERVATION OF AGRICULTURAL	Experts	Allotted	3/00	-	-	-
PRODUCTS, CUB/5/006	(m/m)	Rephased	-1/00	1/00	-	-
RADIOISOTOPES IN BIOLOGY, CUB/7/002	Experts	Allotted	4/15	-	-	-
	(m/m)	Rephased	0/15	-	-	-
	Equipment	Allotted	79,000	10,000	-	-
	(CC)	Rephased	3,000	-6,450	-	-
DEM. P.R. KOREA						
THERMOLUMINESCENCE DOSIMETRY, DRK/1/004	Experts	Allotted	2/00	1/00	-	-
	(m/m)	Rephased	-2/00	2/00	-	-
	Equipment	Allotted	72,000	-	-	-
	(CC)	Rephased	-15,000	15,000	-	-
ECUADOR						
NUCLEAR MEDICINE SERVICES, ECU/6/009	Equipment	Allotted	416,000	20,000	-	-
	(CC)	Rephased	-100,000	-	100,000	-
EGYPT						
MICROPROCESSOR APPLICATIONS IN NUCLEAR	Experts	Allotted	6/00	6/00	-	-
SCIENCE, EGY/0/007	(m/m)	Rephased	-3/00	3/00	-	-
PLASMA PHYSICS, EGY/1/017	Experts	Allotted	6/00	-	-	-
	(m/m)	Rephased	-6/00	6/00	-	-
	Equipment	Allotted	20,000	-	-	-
	(CC)	Rephased	-20,000	20,000	-	-
ANIMAL SCIENCE (PYRAMID RESEARCH	Experts	Allotted	2/00	-	-	-
INSTITUTE), EGY/5/015	(m/m)	Rephased	-1/00	1/00	-	-
MANAGEMENT OF SOLID WASTE, EGY/9/012	Equipment	Allotted	500,000	500,000	75,000	-
	(NCC)	Rephased	-460,000	-	460,000	-

Recipient Project title and code	Com- ponent	Allotted/ rephased	Current	Programme year 1987	1988	1989-90
EL SALVADOR						
NUCLEAR SCIENCE LABORATORY, ELS/1/002	Equipment	Allotted	41,000	44,000	-	-
	(CC)	Rephased	9,000	-9,000	-	-
ETHIOPIA						
ISOTOPES IN AGRICULTURE, ETH/5/008	Experts	Allotted	5/00	-	-	-
	(m/m)	Rephased	-1/00	1/00	-	-
RADIATION PROTECTION, ETH/9/004	Experts	Allotted	6/08	-	-	-
	(m/m)	Rephased	-2/00	2/00	-	-
GABON						
NUCLEAR SPECTROMETRY, GAB/1/002	Experts	Allotted	6/00	-	-	-
	(m/m)	Rephased	-3/00	3/00	-	-
GHANA						
ERADICATION OF RIVERINE TSETSE FLY,	Experts	Allotted	12/00	-	-	-
GHA/5/011	(m/m)	Rephased	-2/00	2/00	-	-
GREECE						
NUCLEAR TECHNIQUES IN AGRICULTURE,	Experts	Allotted	2/00	-	-	-
GRE/5/015	(m/m)	Rephased	-1/00	1/00	-	-
NUCLEAR TECHNOLOGY IN ANIMAL SCIENCE,	Experts	Allotted	1/00	2/00	2/00	-
GRE/5/017	(m/m)	Rephased	-0/14	-	-	-
	Equipment	Allotted	26,900	12,000	12,000	-
	(CC)	Rephased	15,000	-12,000	-	-
GUATEMALA						
RADIOISOTOPES IN AGRICULTURE, GUA/5/005	Experts	Allotted	5/18	-	-	-
	(m/m)	Rephased	-2/00	2/00	-	-
NUCLEAR MEDICINE LABORATORY, GUA/6/007	Experts	Allotted	3/00	-	-	-
	(m/m)	Rephased	-1/00	1/00	-	-
	Equipment	Allotted	40,000	-	-	-
	(CC)	Rephased	-40,000	40,000	-	-
INDONESIA						
RADIONUCLIDE STANDARDIZATION, INS/1/016	Experts	Allotted	2/00	2/00	-	-
	(m/m)	Rephased	-2/00	2/00	-	-
FUEL ELEMENT TECHNOLOGY, INS/4/017	Experts	Allotted	7/00	9/00	-	-
	(m/m)	Rephased	-4/00	-	4/00	-
REACTOR PHYSICS, INS/4/018	Experts	Allotted	28/00	8/00	-	-
	(m/m)	Rephased	-8/00	-	8/00	-
RADIOACTIVE WASTE MANAGEMENT, INS/9/006	Equipment	Allotted	117,500	25,000	-	-
	(CC)	Rephased	9,000	-9,000	-	-
REACTOR SAFETY, INS/9/007	Experts	Allotted	10/00	3/00	-	-
	(m/m)	Rephased	-2/00	-	2/00	-
ENVIRONMENTAL RADIOACTIVITY LABORATORY,	Experts	Allotted	6/00	2/00	1/00	-
INS/9/008	(m/m)	Rephased	-2/00	-	2/00	-
IRAN, I.R.						
URANIUM EXPLORATION, IRA/3/002	Experts	Allotted	4/00	2/00	-	-
	(m/m)	Rephased	-3/00	1/00	2/00	-
NUCLEAR REACTOR DESIGN, IRA/4/016	Experts	Allotted	2/00	-	-	-
	(m/m)	Rephased	-1/00	1/00	-	-

Recipient Project title and code	Com- ponent	Allotted/ rephased	Current	Programme year 1987	 1988	 1989-90
IRAQ						
NUCLEAR POWER SAFETY, IRQ/9/004	Experts	Allotted	28/00	12/00	-	-
	(m/m)	Rephased	-15/00	-	15/00	-
DOSIMETRY AND NUCLEAR INSTRUMENTATION	Experts	Allotted	8/00	-	-	-
LABORATORY, IRQ/9/005	(m/m)	Rephased	-7/00	6/00	1/00	-
	Equipment	Allotted	200,000	100,000	-	-
	(CC)	Rephased	-40,000	40,000	-	-
JAMAICA						
RESEARCH REACTOR CENTRE, JAM/4/002	Experts	Allotted	15/09	6/00	-	-
	(m/m)	Rephased	-3/00	-	3/00	-
JORDAN						
RADIOCHEMICAL LABORATORY, JOR/2/002	Experts	Allotted	3/00	2/00	-	-
	(m/m)	Rephased	-2/00	-	2/00	-
	Equipment	Allotted	115,000	50,000	-	-
	(CC)	Rephased	-50,000	-	50,000	-
ISOTOPES IN HYDROLOGY, JOR/8/003	Equipment	Allotted	95,000	80,000	35,000	-
	(CC)	Rephased	-20,000	-	20,000	-
KENYA						
RADIATION PROTECTION, KEN/9/004	Experts	Allotted	2/00	-	-	-
	(m/m)	Rephased	-1/00	1/00	-	-
KOREA, R.						
RADIOACTIVE WASTE DISPOSAL (KAERI),	Experts	Allotted	14/00	12/00	4/00	2/00
ROK/9/021	(m/m)	Rephased	-6/00	-	6/00	-
NUCLEAR POWER PLANT SAFETY, ROK/9/025	Experts	Allotted	13/00	2/00	-	-
	(m/m)	Rephased	-6/00	2/00	4/00	-
COMMISSIONING AND START-UP TESTING OF	Experts	Allotted	21/00	12/00	-	-
NUCLEAR POWER PLANTS, ROK/9/027	(m/m)	Rephased	-8/00	-	8/00	-
NUCLEAR SAFETY RESEARCH, ROK/9/028	Experts	Allotted	6/00	4/00	4/00	-
	(m/m)	Rephased	-3/00	-	3/00	-
LEBANON						
NUCLEAR ANALYTICAL CENTRE, LEB/0/003	Experts	Allotted	2/00	4/00	-	-
	(m/m)	Rephased	-2/00	-	2/00	-
PESTICIDE ANALYSIS, LEB/5/011	Experts	Allotted	1/00	2/00	-	-
	(m/m)	Rephased	-1/00	-	1/00	-
LIBYAN A.J.						
RADIATION SHIELDING MATERIALS, LIB/4/004	Experts	Allotted	3/00	-	-	-
	(m/m)	Rephased	-3/00	3/00	-	-
ERADICATION OF MEDITERRANEAN FRUIT FLY,	Experts	Allotted	4/00	-	-	-
LIB/5/003	(m/m)	Rephased	-3/00	3/00	-	-
MALAYSIA						
RADIOISOTOPE PRODUCTION, MAL/2/002	Experts	Allotted	10/00	-	-	-
	(m/m)	Rephased	-1/00	1/00	-	-
RADIOACTIVE MINERALS SURVEY, MAL/3/006	Experts	Allotted	24/00	-	-	-
	(m/m)	Rephased	-12/00	12/00	-	-
NITROGEN-15 FERTILIZER STUDIES,	Experts	Allotted	4/00	-	-	-
MAL/5/018	(m/m)	Rephased	-1/00	1/00	-	-

Recipient Project title and code	Com- ponent	Allotted/ rephased	Current	Programme year 1987	 1988	 1989-90
MALAYSIA (cont'd.)						
TRACERS IN SEDIMENTOLOGY, MAL/8/005	Experts	Allotted	7/00	-	-	-
	(m/m)	Rephased	-5/00	5/00	-	-
NON-DESTRUCTIVE TESTING CERTIFICATION,	Experts	Allotted	3/00	-	-	-
MAL/8/006	(m/m)	Rephased	-1/00	1/00	-	-
RADIATION PROTECTION PROGRAMME,	Experts	Allotted	4/00	5/00	-	-
MAL/9/007	(m/m)	Rephased	-2/00	-	2/00	-
MALI						
RADIOISOTOPES IN AGRICULTURE, MLI/5/004	Experts	Allotted	7/10	-	-	-
	(m/m)	Rephased	-2/00	2/00	-	-
RADIOISOTOPES IN AGROMETEOROLOGY,	Experts	Allotted	2/00	-	-	-
MLI/5/010	(m/m)	Rephased	-2/00	2/00	-	-
MEXICO						
NUCLEAR APPLICATIONS, MEX/0/008	Experts	Allotted	11/00	-	-	-
	(m/m)	Rephased	-4/00	4/00	-	-
RADIOACTIVE STANDARDS, MEX/1/010	Experts	Allotted	2/00	-	-	-
	(m/m)	Rephased	-2/00	2/00	-	-
PRODUCTION OF MOLYBDENUM-99, MEX/4/035	Equipment	Allotted	40,000	40,000	30,000	-
	(CC)	Rephased	-40,000	-	40,000	-
QUALITY CERTIFICATION, MEX/9/027	Experts	Allotted	16/20	9/00	-	-
	(m/m)	Rephased	-8/00	-	8/00	-
PROBABILISTIC RISK ANALYSIS, MEX/9/031	Experts	Allotted	6/00	-	-	-
	(m/m)	Rephased	-5/00	5/00	-	-
MONGOLIA						
PLANT MUTATION BREEDING, MON/5/002	Experts	Allotted	6/00	-	-	-
	(m/m)	Rephased	-1/00	1/00	-	-
MOROCCO						
RADIATION PROTECTION, MOR/9/005	Equipment	Allotted	85,600	30,000	-	-
	(CC)	Rephased	10,000	-10,000	-	-
NICARAGUA						
NUCLEAR MEDICINE SERVICES, NIC/6/002	Experts	Allotted	7/00	-	-	-
	(m/m)	Rephased	-5/00	5/00	-	-
NIGERIA						
NUCLEAR TECHNIQUES APPLICATION,	Experts	Allotted	4/02	2/00	-	-
NIR/1/004	(m/m)	Rephased	-2/00	2/00	-	-
NUCLEAR MEDICINE, NIR/6/003	Equipment	Allotted	40,700	-	-	-
	(CC)	Rephased	-15,000	15,000	-	-
PAKISTAN						
INIS DATA BASE, PAK/0/003	Experts	Allotted	3/00	-	-	-
	(m/m)	Rephased	-3/00	3/00	-	-
URANIUM PROSPECTION, PAK/3/005	Experts	Allotted	27/00	6/00	-	-
	(m/m)	Rephased	-8/00	2/00	6/00	-
RADIOIMMUNOASSAY, PAK/6/007	Experts	Allotted	8/00	-	-	-
	(m/m)	Rephased	-4/00	4/00	-	-

Recipient Project title and code	Com- ponent	Allotted/ rephased	Current	Programme year 1987	1988	1989-90
PAKISTAN (cont'd.)						
NUCLEAR CARDIOLOGY SERVICES, PAK/6/009	Experts	Allotted	9/00	2/00	-	-
	(m/m)	Rephased	-4/00	2/00	2/00	-
PANAMA						
NUCLEAR ANALYTICAL TECHNIQUES, PAN/2/004	Experts	Allotted	3/00	2/00	2/00	-
	(m/m)	Rephased	1/00	-1/00	-	-
	Equipment	Allotted	75,000	40,000	50,000	-
	(CC)	Rephased	18,000	-18,000	-	-
NUCLEAR MEDICINE, PAN/6/005	Experts	Allotted	4/05	3/00	-	-
	(m/m)	Rephased	-3/00	-	3/00	-
PARAGUAY						
RADIOCHEMISTRY LABORATORY, PAR/2/002	Experts	Allotted	2/00	-	-	-
	(m/m)	Rephased	-1/00	1/00	-	-
	Equipment	Allotted	50,000	-	-	-
	(CC)	Rephased	-7,000	7,000	-	-
NUCLEAR MEDICINE, PAR/6/006	Experts	Allotted	2/00	-	-	-
	(m/m)	Rephased	-2/00	2/00	-	-
NON-DESTRUCTIVE TESTING, PAR/8/004	Experts	Allotted	2/00	-	-	-
	(m/m)	Rephased	-1/00	1/00	-	-
PHILIPPINES						
SECONDARY STANDARDS DOSIMETRY	Experts	Allotted	4/00	1/00	-	-
LABORATORY, PHI/1/012	(m/m)	Rephased	-1/00	1/00	-	-
	Equipment	Allotted	50,000	50,000	-	-
	(CC)	Rephased	50,000	-50,000	-	-
MEDICAL PHYSICS TRAINING, PHI/6/010	Experts	Allotted	27/00	4/00	-	-
	(m/m)	Rephased	-6/00	6/00	-	-
NUCLEAR MEDICINE (CARDIAC FUNCTION	Experts	Allotted	4/00	-	-	-
STUDY), PHI/6/014	(m/m)	Rephased	-4/00	-	4/00	-
RADIOACTIVE WASTE MANAGEMENT, PHI/9/016	Experts	Allotted	4/00	-	-	-
	(m/m)	Rephased	-4/00	4/00	-	-
POLAND						
NUCLEAR ANALYTICAL TECHNIQUES, POL/1/004	Equipment	Allotted	140,000	-	-	-
	(CC)	Rephased	-7,000	7,000	-	-
NEUTRON STANDARDIZATION LABORATORY,	Equipment	Allotted	42,000	-	-	-
POL/1/005	(CC)	Rephased	-10,000	-	10,000	-
ELECTRON BEAM RADIATION PROCESSING,	Experts	Allotted	2/04	-	-	-
POL/4/003	(m/m)	Rephased	-1/00	1/00	-	-
USE OF LINEAR ACCELERATOR, POL/4/004	Equipment	Allotted	140,000	40,000	-	-
	(CC)	Rephased	-25,000	-	25,000	-
PORTUGAL						
URANIUM EXPLORATION (DGGM), POR/3/007	Experts	Allotted	5/00	-	-	-
	(m/m)	Rephased	-2/00	2/00	-	-
IRRADIATION FACILITY, POR/8/002	Equipment	Allotted	598,500	100,000	-	-
	(NCC)	Rephased	30,500	-30,500	-	-

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ROMANIA						
DOSIMETRY INSTRUMENTATION, ROM/1/007	Experts	Allotted	4/00	2/00	-	-
	(m/m)	Rephased	-3/00	-	3/00	-
	Equipment	Allotted	188,000	92,000	-	-
	(CC)	Rephased	24,700	-24,700	-	-
HEAVY ION PHYSICS, ROM/1/009	Experts	Allotted	2/00	-	-	-
	(m/m)	Rephased	-1/00	1/00	-	-
SAUDI ARABIA						
APPLICATION OF NUCLEAR TECHNIQUES,	Experts	Allotted	8/00	-	-	-
SAU/8/002	(m/m)	Rephased	-6/00	3/00	3/00	-
SENEGAL						
NUCLEAR ANALYTICAL LABORATORY, SEN/1/003	Experts	Allotted	6/00	-	-	-
	(m/m)	Rephased	-2/00	2/00	-	-
SIERRA LEONE						
NUCLEAR SCIENCE LABORATORY, SIL/0/004	Experts	Allotted	11/12	-	-	-
	(m/m)	Rephased	-3/00	3/00	-	-
SRI LANKA						
NUCLEAR SCIENCE TRAINING, SRL/0/002	Experts	Allotted	14/00	5/00	-	-
	(m/m)	Rephased	-3/00	3/00	-	-
RADIATION DOSIMETRY, SRL/1/005	Experts	Allotted	5/00	-	-	-
	(m/m)	Rephased	-5/00	3/00	2/00	-
NUCLEAR RAW MATERIALS, SRL/3/004	Experts	Allotted	5/00	1/00	-	-
	(m/m)	Rephased	-2/00	2/00	-	-
PROSPECTION AND EXTRACTION OF	Experts	Allotted	1/00	-	-	-
RADIOACTIVE MATERIALS, SRL/3/005	(m/m)	Rephased	-1/00	1/00	-	-
RADIOISOTOPES IN PLANT NUTRITION AND	Experts	Allotted	4/21	1/00	-	-
PHYSIOLOGY, SRL/5/019	(m/m)	Rephased	-1/00	1/00	-	-
RADIOISOTOPES IN MEDICAL DIAGNOSIS,	Experts	Allotted	5/00	-	-	-
SRL/6/011	(m/m)	Rephased	-2/00	2/00	-	-
RADIATION THERAPY, SRL/6/014	Experts	Allotted	3/00	-	-	-
	(m/m)	Rephased	-3/00	3/00	-	-
RADIOIMMUNOASSAY IN MEDICAL DIAGNOSIS,	Experts	Allotted	3/00	-	-	-
SRL/6/015	(m/m)	Rephased	-3/00	3/00	-	-
SUDAN						
URANIUM GEOLOGY AND EXPLORATION METHODS,	Experts	Allotted	8/00	-	-	-
SUD/3/003	(m/m)	Rephased	-3/00	3/00	-	-
ANIMAL SCIENCE, SUD/5/016	Experts	Allotted	2/08	-	-	-
	(m/m)	Rephased	-2/00	1/00	1/00	-
ISOTOPES IN HYDROLOGY, SUD/8/004	Experts	Allotted	8/15	-	-	-
	(m/m)	Rephased	-4/00	4/00	-	-
SYRIAN A.R.						
RESEARCH REACTOR, SYR/4/002	Experts	Allotted	7/02	-	-	-
	(m/m)	Rephased	-3/00	-	3/00	-
NUCLEAR ELECTRONICS, SYR/4/003	Experts	Allotted	6/00	4/00	-	-
	(m/m)	Rephased	-1/00	1/00	-	-
	Equipment	Allotted	45,000	50,000	-	-
	(CC)	Rephased	-7,000	7,000	-	-

Recipient Project title and code	Com- ponent	Allotted/ rephased	Current	Programme year 1987	 1988	 1989-90
THAILAND						
NUCLEAR RAW MATERIAL PROSPECTION,	Experts	Allotted	16/00	14/00	-	-
THA/3/003	(m/m)	Rephased	-6/00	-	6/00	-
RADIOISOTOPE PRODUCTION FACILITY,	Equipment	Allotted	803,800	-	-	-
THA/4/008	(CC)	Rephased	-40,000	40,000	-	-
	Equipment	Allotted	270,000	-	-	-
	(NCC)	Rephased	-50,000	50,000	-	-
RADIATION STERILIZATION OF MEDICAL	Experts	Allotted	4/00	-	-	-
SUPPLIES, THA/8/009	(m/m)	Rephased	-2/00	2/00	-	-
TUNISIA						
NUCLEAR LEGISLATION AND REGULATION,	Experts	Allotted	1/00	-	-	-
TUN/0/004	(m/m)	Rephased	-1/00	1/00	-	-
	Fellowships	Allotted	7,200	-	-	-
	(CC)	Rephased	-7,200	7,800	-	-
NUCLEAR MEDICINE, TUN/6/002	Experts	Allotted	3/15	-	-	-
	(m/m)	Rephased	-2/00	2/00	-	-
TURKEY						
EXPLOITATION OF URANIUM RESOURCES,	Experts	Allotted	14/00	8/00	-	-
TUR/3/006	(m/m)	Rephased	-2/00	-1/20	2/00	-
	Equipment	Allotted	31,470	10,000	-	-
	(CC)	Rephased	21,500	-10,000	-	-
AERIAL SPECTROMETRY, TUR/3/007	Experts	Allotted	4/00	3/00	3/00	4/00
	(m/m)	Rephased	-4/00	-	4/00	-
	Equipment	Allotted	70,000	170,000	50,000	-
	(CC)	Rephased	59,000	-59,000	-	-
TRACE ELEMENTS IN FOODSTUFFS, TUR/5/011	Experts	Allotted	2/00	-	-	-
	(m/m)	Rephased	-1/00	1/00	-	-
	Equipment	Allotted	80,000	-	-	-
	(CC)	Rephased	-30,000	30,000	-	-
NUCLEAR TECHNIQUES IN ANIMAL SCIENCE,	Equipment	Allotted	22,900	75,000	7,000	14,000
TUR/5/012	(CC)	Rephased	15,000	-15,000	-	-
NUCLEAR POWER PROGRAMME, TUR/9/005	Experts	Allotted	58/06	18/00	20/00	-
	(m/m)	Rephased	-10/00	-	10/00	-
	Fellowships	Allotted	72,820	35,100	12,600	-
	(CC)	Rephased	25,000	-25,000	-	-
U.R. TANZANIA						
TSETSE FLY ERADICATION, URT/5/007	Experts	Allotted	13/00	2/00	-	-
	(m/m)	Rephased	-3/00	3/00	-	-
URUGUAY						
NUCLEAR TECHNOLOGY CENTRE, URU/0/007	Experts	Allotted	4/00	5/00	-	-
	(m/m)	Rephased	1/00	-1/00	-	-
	Equipment	Allotted	124,600	50,000	-	-
	(CC)	Rephased	9,000	-9,000	-	-
RADIOCHEMISTRY, URU/2/006	Experts	Allotted	1/00	-	-	-
	(m/m)	Rephased	-1/00	1/00	-	-
URANIUM PROSPECTION, URU/3/007	Equipment	Allotted	82,083	-	-	-
	(CC)	Rephased	-25,000	25,000	-	-

Recipient Project title and code	Com- ponent	Allotted/ rephased	Current	Programme year 1987	1988	1989-90
URUGUAY (cont'd.)						
RESEARCH REACTOR MODERNIZATION,	Experts	Allotted	5/00	-	-	-
URU/4/008	(m/m)	Rephased	-2/00	2/00	-	-
	Equipment	Allotted	20,000	-	-	-
	(CC)	Rephased	-15,000	15,000	-	-
ASSESSMENT OF SOIL EROSION LOSSES,	Experts	Allotted	6/00	-	-	-
URU/5/015	(m/m)	Rephased	-2/00	2/00	-	-
VENEZUELA						
SECONDARY STANDARDS DOSIMETRY	Experts	Allotted	5/00	2/00	-	-
LABORATORY, VEN/1/004	(m/m)	Rephased	-1/00	1/00	-	-
RESEARCH REACTOR UPGRADING, VEN/4/008	Experts	Allotted	6/00	-	-	-
	(m/m)	Rephased	-2/00	2/00	-	-
CENTRE FOR NUCLEAR AGRICULTURE,	Experts	Allotted	20/00	12/00	12/00	-
VEN/5/009	(m/m)	Rephased	-8/00	-	8/00	-
VIET NAM						
NUCLEAR INSTITUTE DEVELOPMENT, VIE/0/002	Experts	Allotted	11/00	-	-	-
	(m/m)	Rephased	-2/00	2/00	-	-
NUCLEAR INFORMATION CENTRE, VIE/0/003	Experts	Allotted	2/00	-	-	-
	(m/m)	Rephased	-2/00	2/00	-	-
NUCLEAR INSTRUMENTATION, VIE/4/003	Experts	Allotted	4/00	-	-	-
	(m/m)	Rephased	-2/00	2/00	-	-
NUCLEAR MEDICINE (HUE), VIE/6/012	Experts	Allotted	6/00	-	-	-
	(m/m)	Rephased	-3/00	3/00	-	-
FOOD IRRADIATION, VIE/8/004	Experts	Allotted	4/00	2/00	-	-
	(m/m)	Rephased	-2/00	2/00	-	-
NON-DESTRUCTIVE TESTING, VIE/8/005	Experts	Allotted	3/00	-	-	-
	(m/m)	Rephased	-3/00	3/00	-	-
YUGOSLAVIA						
PREVLAKA NUCLEAR POWER PLANT, YUG/4/021	Experts	Allotted	47/00	35/00	-	-
	(m/m)	Rephased	-19/00	10/00	9/00	-
REACTOR SAFETY STUDIES, YUG/9/018	Experts	Allotted	23/00	15/00	8/00	-
	(m/m)	Rephased	-3/00	-	3/00	-
	Equipment	Allotted	263,000	54,000	100,000	-
	(CC)	Rephased	-55,000	-	55,000	-
RADIATION PROTECTION, YUG/9/022	Experts	Allotted	1/00	4/00	4/00	-
	(m/m)	Rephased	-1/00	-	1/00	-
	Equipment	Allotted	72,000	45,000	10,000	-
	(CC)	Rephased	-72,000	-	72,000	-
RADIATION PROTECTION, YUG/9/022	Fellowships	Allotted	21,600	29,250	23,100	-
	(CC)	Rephased	-21,600	-	25,200	-
ZAIRE						
RADIOIMMUNOASSAY KIT PRODUCTION,	Experts	Allotted	10/00	-	-	-
ZAI/2/010	(m/m)	Rephased	-3/00	3/00	-	-
RADIOISOTOPES IN AGRICULTURE, ZAI/5/006	Experts	Allotted	5/14	-	-	-
	(m/m)	Rephased	-2/00	2/00	-	-
IMPROVEMENT OF GRAIN LEGUMES, ZAI/5/008	Equipment	Allotted	5,000	5,000	-	-
	(CC)	Rephased	5,000	-5,000	-	-

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ZAMBIA						
NUCLEAR ANALYTICAL LABORATORY, ZAM/0/005	Experts	Allotted	12/00	1/00	-	-
	(m/m)	Rephased	-3/00	3/00	-	-
URANIUM RESOURCES, ZAM/3/005	Experts	Allotted	3/00	-	-	-
	(m/m)	Rephased	-3/00	3/00	-	-
RADIOISOTOPES IN AGRICULTURE (FERTILIZER	Experts	Allotted	18/06	-	-	-
STUDIES), ZAM/5/004	(m/m)	Rephased	-1/00	1/00	-	-
GROUNDWATER STUDIES, ZAM/8/005	Experts	Allotted	3/00	-	-	-
	(m/m)	Rephased	-2/00	2/00	-	-
REGIONAL AFRICA						
NUCLEAR TECHNIQUES IN INSECT PHYSIOLOGY	Experts	Allotted	13/00	-	-	-
AND BIOCHEMISTRY, RAF/5/004	(m/m)	Rephased	-1/00	1/00	-	-
REGIONAL ASIA AND THE PACIFIC						
QUALITY CONTROL OF NUCLEAR MEDICINE	Experts	Allotted	16/00	-	-	-
PROCEDURES IN VIVO, RAS/6/004	(m/m)	Rephased	-4/00	4/00	-	-
REGIONAL EUROPE						
NUCLEAR APPLICATIONS IN AGRICULTURE,	Experts	Allotted	2/00	-	-	-
RER/5/002	(m/m)	Rephased	-1/00	1/00	-	-
REGIONAL LATIN AMERICA						
QUALITY CONTROL OF NUCLEAR MEDICINE	Experts	Allotted	22/00	-	-	-
PROCEDURES IN VIVO, RLA/6/006	(m/m)	Rephased	-6/00	6/00	-	-
INTERREGIONAL						
MICROCOMPUTERS IN NUCLEAR EXPERIMENTS,	Experts	Allotted	9/00	2/00	-	-
INT/0/040	(m/m)	Rephased	-4/00	4/00	-	-
	Equipment	Allotted	86,000	10,000	-	-
	(CC)	Rephased	-20,000	20,000	-	-
NUCLEAR POWER PROGRAMME IMPLEMENTATION,	Equipment	Allotted	-	10,000	-	-
INT/4/079	(CC)	Rephased	10,000	-10,000	-	-
RADIATION PROTECTION SERVICES, INT/9/064	Experts	Allotted	25/00	22/00	-	-
	(m/m)	Rephased	-	-2/00	-	-
	Equipment	Allotted	68,400	-	-	-
	(CC)	Rephased	15,000	-	-	-
TOTALS						
	Experts	Allotted	1,087/08	315/00	73/00	6/00
	(m/m)	Rephased	-393/29	240/10	150/00	-
	Experts	Allotted	7,042,856	2,362,500	591,300	52,200
	($)	Rephased	-2,702,070	1,802,500	1,215,000	-
	Equipment	Allotted	4,563,953	1,517,000	529,000	74,000
	(CC)	Rephased	-302,800	-43,150	372,000	-
	Equipment	Allotted	1,368,500	600,000	75,000	-
	(NCC)	Rephased	-479,500	19,500	460,000	-
	Fellowships	Allotted	112,420	87,750	35,700	-
	(CC)	Rephased	9,400	-30,400	25,200	-
	Total allotted		13,087,729	4,567,250	1,231,000	126,200
	Total rephased		-3,474,970	1,748,450	2,072,200	-