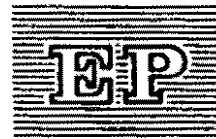




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Executive Committee of
the Multilateral Fund for the
Implementation of the Montreal Protocol

Tenth Meeting
Montreal, 28–30 June 1993

UNDP PROGRESS REPORT

This document includes:

- Comments and recommendations from the Fund Secretariat
- UNDP Progress Report

**COMMENTS AND RECOMMENDATIONS FROM THE FUND SECRETARIAT
ON UNDP PROGRESS REPORT**

1. The Progress Report indicates that UNDP has taken measures to get operationally strengthened to facilitate implementation of activities within its Work Programme.
2. A Financial Summary is provided which gives "cumulative disbursement/obligations" by country up to June 30, 1993 and balances remaining of funds allocated to the UNDP Work Programmes to date.
3. The Financial Summary shows the cumulative disbursement/obligations to be a total of US \$5,913,484, equivalent to about 48% of the funds (US \$12,921,599) approved for UNDP Work Programmes to date.
4. However, with regard to funds for institutional strengthening projects approved between October 1992 and March 1993 (amounting to US \$1,627,520) for India (US \$430,000), Kenya (US \$175,000) Malaysia (\$322,520), Nigeria (US \$300,000) and Thailand (US \$400,000), the status report indicates either finalization of project documents on the approved funds or final project documents awaiting UNDP and Government signatures. Thus, the actual disbursement to date would be rather US \$4,604,970, equivalent to about 36% of the approved funds.
5. In the case of the institutional strengthening project approved in October 1993 for Ghana (US \$160,000), it is reported that some non-technical changes were being made in the project document to meet UNDP requirements.
6. Thus, it seems that transfer of institutional strengthening funds to the beneficiary countries would take 6 months or longer due to project documentation which apparently follows the same procedures for other projects for which UNDP is responsible. The process of transfer of funds for these projects which the Article 5 countries consider as crucial to successful implementation of their programmes, could be expedited by devising and providing to beneficiary countries a common (project documentation) format for application and release of the institutional strengthening funds.
7. For clarity, disbursements reported should be real time rather than forecast disbursements. Hence, the financial summary should indicate actual amounts disbursed at the time of its preparation and, if necessary, "obligations" or probable disbursements of a definite target date.
8. The report shows unutilized funds amounting to US \$179,187 for a number of activities which have been completed. When the project support cost of 13% is taken into account, the accumulated balance on completed projects amounts to US \$236,281. The breakdown is shown in the Table below. Project duration denotes the time the project funds were approved to the reported project completion date.

Country	Project/ Project Cost (US \$)	Project Duration	Balance Remaining on Completed Projects (US\$)	Per Cent of Approved Funds
Costa Rica	Reconnaissance Study (20,000)	June 1991 - 2nd Quarter 1992	3,501	18
Cuba	Country Programme preparation (22,600)	October 1992 - August 1993	7,600	34
Egypt	Study tours for govt. and industry (126,000)	June 1991 - Nov. 1991	86,481	69
Iran	Country Programme preparation (35,000)	Feb. 1992 - May 1993	30,000	85
Nigeria	National seminar on industry and protection of the ozone layer (49,650)	June 1991 - Nov. 1992	23,201	47
Philippines	Training programme in the refrigeration sector. (64,000) Country programme preparation (84,820)	June 1991 - Dec. 1992	1,703	3
		June 1991 - May 1993	24,820	29
Uruguay	Consultant mission to assess technical assistance requirements Country programme preparation (13,050)	June 1991- October 1992	3,589	28
		October 1992 - May 1993	17,312	64
Venezuela	Technical assistance and training of servicing technicians in the refrigeration sector (30,000)	June 1991 - June 1992	10,980	36

9. In some cases, e.g. country programme preparation in Cuba, and Uruguay and the activities in Egypt and Nigeria (completed in November 1991 and November 1992 respectively), it is indicated in a footnote that additional obligations are foreseen.
10. In four activities, disbursements have exceeded amounts approved by about 2-8%, e.g. China Country Programme preparation US \$16,000 (8%), Egypt - Phase-out of CFC-11 in the manufacture of moulded polyurethane foams at Technopol Co. US \$11,000, (2%).
11. Ghana Refrigeration training programme and Kenya demonstration and training unit: Funds for these projects were approved in June 1991. UNDP is requesting the Executive Committee to transfer these activities to UNEP as the implementing agency because of the difficulty in direct transfer of funds between the two implementing agencies. It cites agreements of the Governments concerned. Long delays may tend to disorient approved

projects due to the dynamic nature of the process. In Kenya for instance, while implementation of the project was being held up, a regional refrigeration training workshop was organised by UNEP in Nairobi in which a large number of participants from Kenya attended. The Ghana project meanwhile had been made a component of an integrated refrigeration training, maintenance and recycling project which was approved in October 1992 with UNDP as the implementing agency.

12. Some tangible outputs have been obtained for some of the completed projects, e.g., Venezuela training project in refrigeration sector (training video tape produced). In such instances, the outputs could be communicated to UNEP IE/PAC for wider distribution.
13. Regional and Global Projects: Progress of implementation is slow. US \$319,000 has been disbursed out of over US \$2.2 million approved. The difficulty encountered in transferring the training and demonstration project to UNEP is causing further delay in implementation. The activity involved in the transfer is the six training and demonstration programmes in commercial/industrial refrigeration in Latin America (Spanish), South-East Asia, Middle East, Africa (English) and Africa (French) (Total approved funds: US \$240,000). Being a demonstration project, however, the transfer could conflict with UNEP's mandate.

Global Projects:

14. The report on the Global Halon Project lacks specificity. The six countries in which "provision of technical assistance and information on alternatives and available technologies and experience" are under preparation should have been indicated as well as specific information on the two regional halons sector training/demonstration programmes used for co-ordination.
15. The report on the Global MAC project similarly lacks specificity, such as starting date, countries involved, which other projects are being developed.
16. Lack of details and delay in implementation and apparent lack of strategy for implementation of these global projects could lead to duplication resulting from individual countries who are beneficiaries of these projects requesting for similar national projects. The delay in implementing the MAC Regional and Global Projects is a particular case in point.

Recommendations

1. To endorse the transfer from UNDP to UNEP as the implementing agency of:
 - a) The Ghana Refrigeration Training Programme for Servicing Technicians (Approved project funds: US \$99,000)
 - b) Kenya Demonstration and Training Unit for maintenance and recharge of refrigeration and air conditioning equipment (Approved project funds: US \$115,000)
 - c) The six training and demonstration programmes in commercial/industrial refrigeration in Latin America, South-East Asia, Middle East and Africa (Approved project funds: US \$240,000)
2. To request UNEP to review the cost of the activities in the light of developments which have taken place since their approval, with a view to reducing the costs, where necessary.
3. To request UNDP to refund to the Treasurer the amounts transferable in accordance with the Memorandum of Understanding between the two implementing agencies and the agreements of the governments concerned.
4. To request UNDP to take the cumulative balance of funds on completed projects into account in assessing its funding requirements for its Work Programmes.
5. To request UNDP (and other implementing agencies) to notify the Executive Committee of any future transfer of approved projects to another agency prior to such a transfer.

**EXECUTIVE COMMITTEE OF THE MULTILATERAL FUND
FOR THE IMPLEMENTATION OF THE MONTREAL PROTOCOL**

(Tenth Meeting, 28-30 June 1993, Montreal)

PROGRESS REPORT

OF THE

UNITED NATIONS DEVELOPMENT PROGRAMME

CONTENTS

- A. Operational and Policy Developments
- B. Financial Summary as of June 1993
- C. Status of Approved UNDP Work Programmes

A. OPERATIONAL AND POLICY DEVELOPMENTS

UNDP, during second quarter 1993, completed recruitment of staff for its Montreal Protocol Unit. Arrangements were also finalized with its sector experts. For the information of the Executive Committee, the organizational structure underlying implementation of UNDP's work programme under the Montreal Protocol is summarized below.

The organizational unit within UNDP which has supervisory responsibility for all Montreal Protocol related matters is the Environment and Natural Resources Group (ENR) at UNDP headquarters, New York. ENR is responsible for all environment and natural resources matters within UNDP and is headed by a Manager. Within ENR is the Montreal Protocol Unit (MPU) which is responsible for overall programme design, management and evaluation and has six staff members devoted to Montreal Protocol matters. The personnel involved (including the Manager) are the following:

- 1) Mr. Luis Gomez-Echeverri (Colombia), ENR Manager, with overall responsibility for all Montreal Protocol related activities.
- 2) Mr. Frank Pinto (India), Principal Technical Adviser, ENR, and Chief, Montreal Protocol Unit (MPU)/ENR.
- 3) Mr. Clinton Norris (US), UNDP Expert in CFC Replacement Technologies, MPU/ENR.
- 4) Mr. Jacques van Engel (Belgium), Environment Specialist, MPU/ENR (effective June 1993).
- 5) Mr. Ichita Yamamoto (Japan), Programme Officer, MPU/ENR.
- 6) Ms. Cecilia Corpus (Philippines), Principal Programme and Administrative Assistant, MPU/ENR.
- 7) Ms. Anna Corina Lopez (US), Secretary and Junior Programme Assistant, MPU/ENR.

The following UNDP staff work part-time on Montreal Protocol related matters:

- 8) Ms. Shiao-Yuen Hu-Fazzi, Chief, Programme Support Unit, and Finance Officer, GEF/ENR.
- 9) Mr. Paul Chan, Principal Finance/Administrative Assistant, GEF/ENR.
- 10) Ms. Delmin Sarco, Secretary

The following sector specialists have retainer expert contracts with UNDP. They report to the MPU/ENR and are responsible for the design, technical implementation, monitoring and evaluation of UNDP projects and programmes in their fields of specialization:

- a) Aerosols: Mr. Geno Nardini (US/Mexico), Manager, Instituto Mexico de Aerosoles, Mexico City, Mexico. He is also a World Bank OORG member (aerosols) and a member of the UNEP Aerosols Technical Options Committee.
- b) Foams: Mr. Bert Veenendaal (Netherlands), Principal, Rappa Inc. (Environmental Consultants), LaPorte, Indiana, USA. He is a member of the UNEP Flexible and Rigid Foams Technical Options Committee, and a member of the USEPA Stratospheric Ozone Protection Advisory Committee.
- c) Halons: Mr. Erik Pedersen (Denmark), Director, Fire Protection Department, Danish Institute of Fire Technology, Copenhagen, Denmark. He is a member of the UNEP Halons Technical Options Committee, Convener of the Working Group on Harmonization of Fire Requirements in EEC Countries, and Convener of a Working Group on Fire Safety Engineering with CIB (International Council for Building Research, Studies and Documentation).
- d) Refrigeration Training : Ms. Jacqueline Levister (US), GAIA International Environmental Consultants, Washington, D.C. Was formerly technology transfer consultant (refrigeration) with USEPA.
- e) Solvents: Mr. Clinton Norris (US), UNDP Expert in CFC Replacement Technologies. He is also President, The Norris Group (Environmental and Business Consultancy), and was formerly Worldwide Business Manager (electronic products including solvents) at DuPont.

Several different consultants have been used in the refrigeration sector to date and UNDP hopes to have on retainer contract by end-June 1993 an appropriate MAC sector expert. Several UNDP experts who were involved in the China country programme preparation and are assisting in the India and Indonesia CP preparations (all three have UNDP as lead agency) have also been used by the World Bank for investment project preparation. This has ensured close coordination between UNDP and World Bank efforts to tie in technical assistance to investment project formulation.

In addition, UNDP has an extensive roster of around 100 sectoral consultants and experts from both developed and developing countries, several of whom have been used for ODS reconnaissance surveys, country programme preparation, training courses and project preparation.

UNDP has thus fully geared up its staffing and expert strengths to meet both the needs of its existing work programme as well as an expanded programme in the future. With the exception of the MAC regional workshops, which await recruitment of the MAC sector expert, UNDP was able to initiate, and in several instances complete, all remaining activities under its work programme.

Some of the highlights of UNDP's work programme implementation during March-May 1993 are the following:

COUNTRY PROGRAMMES These have been completed for Cuba, Iran, the Philippines and Uruguay and have been submitted for presentation to the Tenth Meeting of the Executive Committee. CP preparation assistance for Cuba and Uruguay were approved by the Executive Committee at its Eighth Meeting in October 1992 and these two CPs were completed within six months of their initiation.

EGYPT A project development/implementation foams sector mission took place during 25 March - 2 April 1993. The team comprised Mr. Bert Veenendaal, UNDP foams sector expert, and Ms. Laurence Reno, Project Management Officer, UNDP/OPS. The team was able to rapidly implement the Misr Foams II project that was approved in March 1993. The transfer of funds, equipment procurement, equipment installation and startup should be completed by end-September 1993, six months after project approval and six months ahead of schedule. CFC-11 phaseout will commence at time of startup.

Firm schedules for equipment procurement and installation were approved for three foams sector approved in October 1992, namely, Misr Foam I, Taki-Vita and Technopol. The Al-Sharif project will start up during first quarter 1994. These projects will result in ODS phaseout in Egypt's foam sector throughout 1994 and will result in one-third of Egypt's foam ODS consumption being eliminated by December 1994.

CHINA A UNDP team mission to China during 14-22 April 1993 resulted in the finalization of eight projects in four sectors amounting to \$3.3 million. These projects have been submitted for approval to the Tenth Meeting of the Executive Committee with UNDP as designated implementing agency. The project formulation team comprised Messrs. Pinto, Norris, Pedersen and Veenendaal. All team members also participated and made presentations at the International Conference on CFC and Halons Alternatives (20-23 April 1993, Beijing), organized by the Federation of Engineering Societies of China. Mr. Pinto also made a presentation on 22 April at the Halon-1211 Recharge/Recovery Training Workshop organized jointly by the Ministry of Public Security, China, and USEPA (22-27 April 1993, Beijing) and had discussions with USEPA representatives on joint programming for UNDP's regional halons programmes in the Middle East and Latin America, as well as collaboration on the global halons programme. Messrs. Pinto and Norris also discussed with Canadian Government representatives the potential for collaboration in technical assistance programmes in specified Provinces in China.

INDIA UNDP, as lead implementing agency, has assisted India start its CP preparation activities. Mr. Pinto represented UNDP and, following discussions with Government officials, spoke on the requirements for CP preparation at the National

Workshop on Project Preparation and Training (31 March-2 April 1993, New Delhi) attended by over 50 participants; a presentation was also made on foam sector projects. Agreement was reached with the Government on the international experts to be selected, on the national lead agency, and on the time frame for project activities. A follow-up mission to India during 26-30 April by Mr. Norris, who has been selected as consultant for India CP policy/strategy, and who worked with both the Government and the CP lead agency Ozone Cell/TERI (Tata Energy Research Institute) resulted in development of a detailed TOR and time schedule for CP preparation, investigation of the ODS data situation, and determination of the schedule for two national workshops to finalize the CP which the Government of India has targeted for presentation to the 11th Meeting of the Executive Committee.

INDONESIA UNDP is lead implementing agency for CP preparation. Mr. Pinto completed a CP preparation scheduling mission during 12-14 April 1993. Issues discussed and finalized included CP implementation modalities, designation of national lead agency, selection of international and national experts, formation of sectoral working groups, the time schedule for CP preparation and budgetary allocations. A Memorandum of Understanding between the Government and UNDP covering these issues has been approved. The Government has determined that the CP will be presented to the 12th Meeting of the Executive Committee in early 1994.

MALAYSIA/THAILAND Visits to Thailand (5-7 April) and Malaysia (8-10 April) by Mr. Pinto resulted in the startup of approved institutional strengthening projects and in discussion on technical assistance and other requirements. A MAC sector project proposal was discussed in Malaysia and has been submitted for approval to the Executive Committee.

VENEZUELA As approved under UNDP's work programme for Venezuela in March 1993, workshops on conversion and installation of new non-ODS central airconditioning systems were held in Maracaibo on 15th April and in Caracas on 12th May. The combined attendance was 134 technicians. A workshop on project identification in domestic and commercial refrigeration was also held on 14th May attended by 112 participants. The evaluation sheets demonstrated that a majority of the participants considered the workshop very/extremely useful.

UNDP/UNEP COLLABORATION IN THE REFRIGERATION SECTOR In a Memorandum of Understanding between UNDP and UNEP/Paris signed on 10 March 1993 in Montreal, it was agreed that UNDP and UNEP/Paris would jointly implement the following three activities: (a) refrigeration training programme for servicing technicians in Ghana; (b) demonstration and training unit for maintenance and recharge of refrigeration and airconditioning equipment in Kenya; and (c) the five remaining training and demonstration workshops in commercial/industrial refrigeration in South Asia, East Asia, Middle East, Africa (English) and Africa (French).

It was further agreed that UNDP would transfer the remaining funds to UNEP/Paris through the Fund Treasurer since UNDP rules do not allow the direct subcontracting of UNEP. The Treasurer's response on 10 May was that UNDP as responsible implementing agency must subcontract UNEP and make the financial transfer itself. Since this is not legally possible, UNDP requests the Executive Committee to remove the remaining balance from these activities from its work programme and to designate UNEP as implementing agency. UNDP would then transfer the funds to UNEP/Paris through the Fund Treasurer.

The funds involved are \$93,800 + support costs for Ghana, \$105,248 + support costs for Kenya, and \$216,953 + support costs for the five remaining regional refrigeration sector workshops. UNDP's refrigeration sector training expert would assist UNEP in implementing the training and demonstration components of the five regional workshops.

THREE YEAR PLAN AND BUDGET MEETING UNDP was represented by Messrs. Gomez-Echeverri and Norris at the above meeting convened by the Fund Secretariat during 1-2 April 1993 in Montreal. UNDP participated in the discussions and presented its three-year plan and budget along with those of the other implementing agencies.

IMPLEMENTING AGENCY COOPERATION Mr. Norris represented UNDP and substantively contributed to the discussions at the World Bank OORG Meeting held on 18 May 1993 in Washington D.C. He used this opportunity to coordinate with Bank officials and other sector experts who will participate in the ongoing India Country Programme preparation, where UNDP is lead implementing agency.

B. FINANCIAL SUMMARY AS OF JUNE 1993

The attached Financial Summary shows the cumulative expected disbursements and obligations by country and for regional/global activities under UNDP's work programme as of end-June 1993. Of the \$13.6 million that UNDP has received or is responsible for, \$6.75 million has been disbursed or obligated as of end-June 1993. This translates to an implementation rate of 50%.

C. STATUS OF APPROVED UNDP WORK PROGRAMMES

The attached 14-page table, which has been prepared following the Fund Secretariat's guidelines, summarizes the status of UNDP's work programmes in each country where it has ongoing programmes covering technical assistance, institutional strengthening and demonstration/investment projects. It also covers the status of UNDP's regional, sectoral and global programmes.

(10ECPRGS)

STATUS OF APPROVED UNDP WORK PROGRAMMES UNDER THE MONTREAL PROTOCOL
(as of June 1993)

*Additional obligations foreseen

(Revision 1)

Sector	Project Title/ Project Type	ODS to be Phased out	Approved Funding	Funds Disbursed/ Obligated	Date of Approval	Date of Completion Proposed Expected	STATUS Progress/Delay
ARGENTINA							
Sev	<u>Technical assistance for CP preparation</u> CPG		\$ 25,000		June 1991	4Q92 4Q93	Several communications were sent to Govt. on the approved activity. The latest fax from UNDP/Buenos Aires said the Govt. has requested UNDP to defer any activity until the Govt. has finalized CP implementation arrangements with the World Bank. Implementation should start in 3rd quarter 1993.
BANGLADESH							
Sev	<u>ODS reconnaissance survey and training</u> CPG		\$ 55,000	\$ 55,000	June 1991	4Q92 2Q93	ODS reconnaissance survey completed in Feb 1993. Other training activities will be completed by June 1993. A national workshop will be held on 5 June 1993 to discuss the results of the ODS survey and to inform government officials, importers, manufacturers and end-users of the provisions of the Protocol, the implications for Bangladesh and the schedule for CP preparation.
Sev	<u>Country Programme Formulation</u> CPG		\$ 25,000	\$ 15,000*	Feb 1992	3Q93 4Q93	Started in April 93 following the completion of the ODS reconnaissance survey in Feb 93. Expected completion date moved from 3Q93 to 4Q93 due to extra time needed by Govt. for completion of CP, which will now be presented at the 12th ExCom Meeting.
BRAZIL							
Ref	<u>Diagnosis and comparative analysis of refrigerant CFC reuse technologies & processes</u> DEM		\$ 25,000	\$ 25,000	Feb 1992	4Q92 4Q93	No activity during 1992 due to Govt. reorganization and lack of national counterparts. In early 1993, Govt. appointed a national focal point for ozone layer activities. The TOR for this study were finalized in April 1993. The Govt. has selected "Associação Brasileira de Aquecimento (ABRAVA)" to implement the study which will start in June 1993 and be completed by December 1993.
CHILE							
Ref	<u>Demonstration programme for technicians in refrigerator servicing</u> DEM		\$ 25,000	\$ 25,000	Feb 1992	4Q92 3Q93	The outline of the demonstration programme was finally agreed to between the Govt. and UNDP in late-April 1993. UNDP's refrigeration sector training expert is coordinating implementation of the demonstration programme that will start with a national workshop during 21-22 June 1993. Related activities will be completed in 3Q93.

CHINA

Aerosols	<u>Technical assistance for Guangdong aerosols investment project and investigation of non-ODS filling technology and LPG purification</u> TAS	\$ 75,000	\$ 45,684*	Feb 1992	4Q92	3Q93
Foam	<u>Technical assistance for CFC-11 substitute technology in flexible polyurethane foam</u> TAS	\$ 70,000	\$45,982*	Feb 1992	4Q92	3Q93
Foam	<u>Technical assistance for CFC-11 substitute technology in rigid polyurethane foam</u> TAS	\$ 70,000	\$20,656*	Feb 1992	4Q92	3Q93
Foam	<u>Quality control testing on CFC-11 substitute technology in a production line for home refrigerators</u> TAS	\$ 65,000		Feb 1992	4Q92	3Q93

Six Chinese aerosols sector technicians visited Egypt and the U.K. in March 1993 to see demonstrations of aerosol filling equipment and LPG purification systems. The plants visits in Egypt were especially important since they obtain purified LPG from centralized systems. The feasibility study for the Guangdong aerosols project is almost completed. With the procurement of a small filling machine for testing purposes in 3Q93, this project will have been completed. UNDP's aerosols sector expert reviewed progress under this project during his visit to China in mid-April 1993.

Several project activities completed. The study tour in Dec. 1992 resulted in development of the Tianjin foam investment project (\$1,080,000, UNDP) submitted to the 10th ExCom Meeting for approval. The study tour included foam trials and testing with CFC-replacement chemicals at several facilities. Local industrial experimentation could not yet be undertaken as appropriate equipment was lacking; these are included in the Tianjin project. The remaining project funds are being used to detail a demonstration programme in extruded polystyrene foam that will be submitted for approval to the 11th ExCom Meeting thru the World Bank. UNDP's foams sector expert reviewed progress under this project during his visit to China in mid-April 1993.

Several project activities completed. A technical mission for rigid spray foam and for pipe insulation is scheduled for mid-June 1993; it will include foam trials with CFC-replacement chemicals to produce foams to meet Chinese specifications. Again, this is necessary to overcome problems with inadequate local equipment. Projects for pipe insulation (\$500,000, World Bank) and spray foam (\$435,000, UNDP) would be ready for submission to the 11th ExCom meeting. UNDP's foams sector expert reviewed progress under this project during his visit to China in mid-April 1993.

Technical visit planned for June 1993 will facilitate choice of testing equipment which will be specified and procured immediately afterwards. This project will run in conjunction with the BHEARI technical assistance project mentioned below. UNDP's foams sector expert reviewed progress under this project during his visit to China in mid-April 1993.

Foam	<u>Technical assistance for the Beijing Household Electric Appliances Research Institute</u> TAS	\$480,000		June 1992	1995	1995	Implementation is tied to the World Bank investment project. UNDP's foams sector expert discussed project implementation modalities with national counterparts during his visit to China in mid-April 1993. The specification/purchase of equipment and initial training are scheduled for 2Q93 continuing into 3Q93.
Halon	<u>Technical study on halons usage and applications of halons substitutes</u> TRA	\$ 40,000	\$ 39,950	Feb 1992	4Q92	2Q93	Activities nearly completed. The combined technical study/tour which will visit Denmark, Germany and the UK in June 1993 will examine the use of halon alternatives, will review the practical problems on replacing halons in critical applications, and will look at new technology development. The experience of Denmark and the UK in setting up halon banking systems will be reviewed. UNDP made a presentation at the Halon-1211 recycling/recharging workshop held during 22-25 April in Beijing organized jointly by USEPA and the Ministry of Public Security and supported in part thru UNDP's global halons project. UNDP's halons sector expert reviewed progress under this project during his visit to China in mid-April 1993.
Ref	<u>Establish a training programme on centrifugal chillers for refrigeration service managers and technicians</u> TRA	\$ 75,000	\$ 40,000*	Feb 1992	1Q93	3Q93	Training programme to be finalized in June. Demonstration equipment as specified will be purchased in July. First training will commence in late 3Q93. Delay was due to initial lower priority assigned by Government to this activity which has since changed.
Ref	<u>Feasibility study on the application of HFC-134a technology in MACs and CFC recycling</u> TAS	\$ 40,000		Feb 1992	4Q92	3Q93	TOR and workplan for this activity were finalized between UNDP and the China National Automotive Industry Corporation (CNAIC) in mid-April 1993 with activities to start in early June. Cooperating bodies are the Pollution Control Dept. of NEPA, the China Automotive Technology and Research Center, the Shanghai Automobile Research Institute and the Changchun Automobile Research Institute.
Sev	<u>Establishment of a quality control testing plant for using CFC-12 substitute technology in refrigeration</u> TAS	\$ 70,000		Feb 1992	4Q92	4Q93	Under discussion with Govt. since the UNDP refrigeration sector expert on the China CP recommended delaying this activity until mid-1993. Terms of reference to be finalized in June 1993 and all activities should be completed by end-1993.
Ref	<u>Testing for applications of CFC substitute chemicals in the refrigeration sector in Southern China</u> TAS	\$100,000		Mar 1993	1Q94	1Q94	Newly approved. Programme implementation was discussed by UNDP technical experts with Ministry and NEPA representatives in Beijing in mid-April 1993. Activities will start in June/July 1993.

Solvent	<u>Prefeasibility study to phaseout CFC-113 in electronics cleaning in four production lines</u> TAS		\$ 40,000	\$ 41,829	Feb 1992	4Q92	1Q93	Completed in Jan. 1993. The associated solvents study tour in Dec. 1992 designed by UNDP's solvents sector expert evaluated alternative CFC-113 replacement technologies for different production lines. Two demonstration production lines approved by the ExCom are already operational (Dalian, Dandong) and the third and fourth (Nanjing, Chengdu) are being submitted for approval to the 10th ExCom Meeting.
Solvent	<u>Dalian precision parts cleaning line demonstration project</u> DEM	86	\$495,000	\$495,000	June 1992	4Q94	4Q94	Project document signed by Govt. and UNDP in Jan 93 and funds transferred the same month. UNDP experts and vendors have visited the site to start implementation. Sample cleaning tests completed. Target completion date is 4Q1994.
Solvent	<u>Dandong electronic tuner aqueous cleaning line demonstration project</u> DEM	25	\$495,000	\$495,000	June 1992	4Q94	4Q94	Project document signed by Govt. and UNDP in Jan 93 and funds transferred the same month. UNDP experts and vendors have visited the site to start implementation. Sample cleaning tests completed. Target completion date is 4Q1994.
Sev	<u>Country Programme preparation</u> CPG		\$200,000	\$216,094	Feb 1992	1Q93	1Q93	Country Programme prepared with UNDP as lead implementing agency was approved by the ExCom at its 10th Meeting in March 1993. Activity completed.
Sev	<u>Institutional Strengthening</u> INS		\$450,000		Mar 1993	1Q96	1Q96	Newly approved. Project document being prepared for signature. It incorporates the Information Clearing-House at NEPA (\$150,000) which is already operational and where ozone information newsletters in Chinese are being produced (UNEP will assist in this subactivity).
Sev	<u>Project preparation assistance</u> PRP		\$100,000	\$ 48,000*	Mar 1993	4Q93	4Q93	Newly approved. Technical missions undertaken by UNDP halons, foams and solvents sector experts to Beijing in April 1993, resulting in finalization of 2 halons technical assistance projects, 3 foams sector projects (including one investment project), 2 solvents demonstration projects, and 2 refrigeration sector projects. All are submitted for approval by the ExCom at its 10th Meeting. Additional projects will be formulated for subsequent ExCom meetings.
Sev	<u>Survey and assessment of small CFC plants conversion possibilities</u> TAS		\$ 90,000		Mar 1993	1Q94	1Q94	Newly approved. TOR finalized with the Government. Implementation to start in June/July 1993.
<u>COSTA RICA</u>								
Sev	<u>Reconnaissance study</u> CPG		\$ 20,000	\$16,499*	June 1991	4Q91	2Q92	Completed in second quarter of 1992 and led to rapid completion of the Country Programme.

Sev	<u>Country programme preparation</u> CPG		\$ 20,000	\$ 19,159*	June 1992	4Q92	3Q92	Country programme was completed in advance of schedule and was approved at the 8th ExCom Meeting in October 1992.
Sev	<u>Implementation of country programme</u> TAS		\$393,400	\$263,160*	Oct 1992	4Q95	4Q95	Two missions have been completed, the first during 24 March - 1 April, and the second during 25-30 April. Two project documents have been prepared to help implement the approved CP. The first PRODOC covers institutional strengthening and the second is a training programme covering all sectors. The documents will be signed in June 1993 with implementation starting immediately thereafter.
<u>CUBA</u>								
Sev	<u>Country programme preparation</u> CPG		\$ 22,600	\$ 15,000*	Oct 1992	2Q93	2Q93	ODS reconnaissance study completion was immediately followed by initiation and completion of the CP which has been submitted to the 10th ExCom Meeting for approval.
<u>ECUADOR</u>								
Ref	<u>CFC refrigerant conversion and material handling training programme</u> TRA		\$100,000	\$ 60,000*	Feb 1992	3Q93	3Q93	Activity started late 1992. Completion by August 1993. It has been expanded in scope to cover the aerosols, foams, solvents and refrigeration sectors. UNDP/Ecuador and the World Bank are cooperating in programme implementation. Delayed start due to change of Govt. and requested change in execution modality that resulted in changed financial and legal arrangements for project implementation.
<u>EGYPT</u>								
Foam	<u>Phase-out of CFC-11 in the manufacturing of flexible polyurethane foam at Misr Foam factory</u> INV	121	\$497,000	\$348,780*	Oct 1992	4Q94	4Q94	Safety training completed. Equipment procurement has also been completed. Construction will begin in June 1993. Project activities will be completed by end-1994 resulting in the phaseout of 121 tonnes per annum of CFC-11.
Foam	<u>Phase-out of CFC-11 in moulded foam manufacturing at Misr Foam factory</u> INV	28	\$275,000	\$232,129*	Mar 1993	1Q94	3Q93	Project implementation has been accelerated. Equipment has been specified and procured. Delivery is expected in July 1993. Equipment installation, startup and national staff training will be completed by end-September 1993, with 28 tonnes/year of CFC-11 phased out.
Foam	<u>Phase-out of CFC-11 in the manufacture of moulded polyurethane foams at Technopol Co.</u> INV	55	\$645,000	\$656,303	Oct 1992	4Q94	4Q94	Equipment procurement has been completed and equipment delivery and installation is scheduled for 3rd quarter 1993. Staff training and startup will start in 4th quarter 1993 with ODS phaseout increasing in stages throughout 1994.

Foam	<u>Elimination of CFC-12 in the manufacture of extruded polystyrene foam at Al-Sharif Plastic Factories</u> INV	75	\$498,000		Mar 1993	1Q94	1Q94	Equipment has been specified and procurement in process. UNDP/OPS was able to locate a technically suitable yet low-cost alternative supplier whose bids are currently being evaluated.
Foam	<u>Phaseout of CFC-11 in the manufacture of moulded, flexible, semi-rigid and rigid polyurethane foam at Taki-Vita Factory</u> INV	50	\$352,500		Oct 1992	1Q95	4Q94	Equipment procurement in process. Installation and startup expected by 4th quarter 1993 with ODS phaseout starting in early 1994 comprising two stages, the first resulting in phaseout of two-thirds of all ODS used in first quarter 1994, and the remaining one-third phased out by fourth quarter 1994.
Ref	<u>Phaseout of CFC in refrigeration at Koldair Company</u> INV	18	\$272,000	\$229,631 *	Oct 1992	4Q94	4Q94	Equipment procurement completed. Equipment delivery is expected in 3rd quarter 1993. Project activities should be completed by end-1993 with ODS phaseout starting in 1994.
Sev	<u>Preparation of investment projects</u> TAS		\$100,000	\$ 59,655 *	Feb 1992	4Q93	4Q93	3 UNDP missions completed by Jan 1993, several investment projects formulated. Fourth mission completed in April 1993, five projects identified. Two of these have been submitted for approval at the 10th ExCom Meeting, and the remaining projects should be ready for submission to the ExCom for approval at its 11th Meeting.
Sev	<u>Study tours for government and industry officials, and pre-feasibility studies</u> TAS		\$126,000	\$ 39,519 *	June 1991	2Q92	2Q92	Completed. Study tours were completed in November 1991 (ozone policy implementation) and in February 1992 (refrigeration). The pre-feasibility studies were prepared mainly by national experts and EEAA staff and led to the detailed formulation of refrigeration and foam sector investment projects.
GHANA								
Foam	<u>Technical assistance for technology transfer for CFC-11 phaseout in flexible foam</u> TAS		\$ 85,000		Oct 1992	4Q94	4Q94	Revised project document received from the Government. Certain non-technical modifications are needed so as to prepare the document for signature. Expected signing in June 1993 with implementation starting immediately thereafter.
Ref	<u>Refrigeration training programme for servicing technicians</u> TRA		\$ 99,000	\$ 5,200 *	June 1991	4Q92	4Q93	In a Memorandum of Understanding between UNDP and UNEP/Paris signed on 10 March 1993 in Montreal, it was agreed that UNDP and UNEP/Paris would jointly implement this activity with UNDP transferring the remaining funds (\$93,800 + support costs) to UNEP/Paris thru the Fund Treasurer since UNDP cannot directly subcontract UNEP as per UNDP rules. The Treasurer's response on 10 May was that UNDP as responsible implementing agency must subcontract UNEP and make the financial transfer itself. Since this is not legally feasible, UNDP is requesting the ExCom to remove this activity from its work programme and designate UNEP as implementing agency so

that the remaining funds can be sent thru the Treasurer to UNEP/Paris for implementation. The Government has approved change of implementing agency.

Ref	<u>Improved servicing and maintenance within the refrigeration sector</u> TRA	50	\$328,000		Oct 1992	4Q95	4Q95
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Revised project document received from the Government. Certain non-technical modifications are being made to put it into required UNDP format for signature in June 1993 with implementation starting immediately thereafter.

Sev	<u>Institutional Strengthening</u> INS		\$160,000		Oct 1992	4Q95	4Q95
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Non-technical changes being made in the project document to meet UNDP requirements. Signature by the Govt. and UNDP in June 1993 to that funds can be transferred and implementation can start.

INDIA

Sev	<u>Country programme preparation</u> CPG		\$200,000	\$ 50,000*	Mar 1993	4Q93	4Q93
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Initial discussions on CP preparation were held between UNDP and Govt. officials during the National Workshop on Project Preparation and Training that was held during 31 March-2 April in New Delhi. This was followed by a CP preparation mission during 26-30 April by a UNDP expert who assisted the Govt. and the national lead agency develop a detailed TOR and time schedule for CP preparation. A detailed week-by-week schedule has been finalized, national and international consultants are being recruited, and two national workshops have been scheduled.

Sev	<u>Institutional Strengthening</u> INS		\$430,000	\$430,000*	Oct 1992	4Q95	4Q95
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Advance authorization resulted in a National Workshop for Industry being funded in late-Jan 1993. The revised project document has been finalized and signature by the Govt. and UNDP is expected during May/June 1993 with remaining funds transferred immediately thereafter.

INDONESIA

Sev	<u>Country programme preparation</u> CPG		\$200,000	\$ 20,000*	Oct 1992	4Q93	4Q93
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An initial CP preparation scheduling mission was completed during 12-14 April 1993. Issues discussed included implementation modality, designation of lead national agency, selection of international and national experts, formation of sectoral working groups, the time schedule for CP preparation and presentation to the ExCom, and budgetary allocations. A Memorandum of Understanding between the Govt. and UNDP covering all these issues has been approved. The Govt. has determined that the CP will be presented to the 12th ExCom Meeting in early 1994.

IRAN

Sev	<u>ODS reconnaissance survey</u> CPG		\$ 30,350	\$ 30,350	June 1991	4Q91	2Q92
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Completed in second quarter 1992.

Sev	<u>Country programme preparation</u> CPG	\$ 35,000	\$ 5,000*	Feb 1992	4Q92	2Q93	Country programme finalized and submitted for presentation to the 10th ExCom Meeting, incorporating changes recommended by the Fund Secretariat.
Sev	<u>Institutional strengthening</u> INS	\$200,200	\$200,200	Oct 1992	1Q96	1Q96	Project document has been finalized. Signature by Govt. and UNDP expected in June 1993 with funds transferred immediately thereafter.
Sev	<u>Project preparation assistance</u> PRP	\$ 50,000	\$ 15,000*	Oct 1992	4Q93	4Q93	The original budget for this activity was \$ 100,000. At the 9th ExCom Meeting, UNDP was requested to and agreed to transfer \$50,000 (+ support costs) to UNIDO. While UNDP will assist in preparation of foams sector projects, UNIDO will assist in refrigeration sector project preparation. Transfer of funds processed on 7 May.
JORDAN							
Aerosol	<u>Feasibility study on deodorization of local gas as a CFC substitute in cosmetics</u> TAS	\$ 12,000	\$ 12,000	Feb 1992	4Q92	2Q93	The feasibility study was to be done based on experience obtained from Egypt. Seven Jordanian aerosols sector staff were to travel to Egypt to obtain this knowledge and then do the study. Due to logistical difficulties, several proposed schedules were changed. The 15-21 May 1993 schedule was changed by Jordan on 6th May. The new date is 12-18 June. Funding authorization completed. Any addl. costs will be met from UNDP's aerosols sector allocation.
Aerosol	<u>Technical assistance and pre-feasibility study in the aerosols sector</u> TAS	\$ 29,000	\$ 29,000	June 1991	4Q91	1Q92	The two Finnish experts, one a chemical process engineer and the other a training specialist completed their assignments in Feb 1992. The results were used by the World Bank in the development of an aerosols investment project and i.. specification of additional technical assistance in aerosols and other sectors.
KENYA							
Ref	<u>Demonstration and training unit for maintenance and recharge of refrigeration and airconditioning equipment</u> TRA	\$115,100	\$ 9,852	June 1991	4Q92	4Q93	Initial mission by UNDP sector expert in Nov 92. A Memorandum of Understanding between UNDP and UNEP/Paris was signed on 10 March in Montreal where it was agreed that UNDP and UNEP/Paris would jointly implement this activity with UNDP transferring the remaining funds (\$105,248 + support costs) to UNEP/Paris thru the Fund Treasurer since UNDP cannot directly subcontract UNEP as per UNDP rules. The Treasurer's response on 10 May was that UNDP as responsible implementing agency must subcontract UNEP and make the financial transfer itself. Since this is not legally feasible, UNDP is requesting the ExCom to remove this activity from its work programme and designate UNEP as implementing agency so that the remaining funds can be sent thru the Treasurer to UNEP/Paris for implementation. The Government has approved change of implementing agency.
Sev	<u>Country Programme Preparation</u> CPG	\$ 25,000		Feb 1992	2Q93	3Q93	Initial mission by intl. expert in Feb 1993 working with two national experts. First draft CP prepared. Second intl. expert mission will assist the Govt. finalize the CP. Target completion date is Sept/Oct 93 for presentation to the 11th or 12th ExCom Meeting.

Sev	<u>Institutional Strengthening</u> INS	\$175,000	\$175,000	Mar 1993	1Q96	1Q96	Recently approved. Project document being finalized for signature by the Govt. and UNDP in June/July 1993 with funds transferred immediately thereafter and project implementation starting.
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MALAYSIA

Ref	<u>Training in MAC sector</u> TRA	\$ 50,000		June 1991	4Q92	4Q93	Tied to the overall World Bank implemented MAC project in Malaysia. The Govt. gave the UNDP technical expert who visited Malaysia during 8-10 April 1993 a detailed implementation schedule for the MAC training programme that ties in with the MAC investment project. Implementation is to start in June 1993 and be completed by end-1993.
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Ref	<u>Institutional strengthening</u> INS	\$322,520	\$322,520*	Mar 1993	1Q96	1Q96	Implementation modality discussed during the visit of the UNDP expert during 8-10 April 1993. Project document being finalized for signature by the Govt. and UNDP by June 1993 with funds transferred immediately thereafter so implementation can proceed.
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MEXICO

Halon	<u>Preparatory study on halons inventory and proposals for revisions of existing standards</u> TAS	\$ 25,000	\$ 15,723*	Feb 1992	4Q92	4Q93	In its fax dated 12 May 1993, the Instituto Nacional de Ecologia, Direccion General de Normatividad Ambiental sent a proposal for implementation of this activity specifying the national expert selected. The first work assignment will be during 24 May - 7 June 1993. Activity completion is seen by end-1993.
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Sev	<u>Preparation of terms of reference for investment projects identified in the country programme</u> TAS	\$ 50,000	\$ 29,277*	June 1991	4Q92	4Q93	The national expert has completed the TOR for the first 10 projects. The Govt. has requested the same expert to now fully develop each of the 10 project proposals into full-scale project documents. This work is expected to be completed by Dec. 1993.
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NIGERIA

Sev	<u>National seminar on industry & protection of the ozone layer</u> TRA	\$ 49,650	\$ 26,449*	June 1991	1Q92	4Q92	Completed in Nov 1992. It was delayed several times, due both to Govt. request, delays in the recruitment of national consultants and by six months at UNEP request to ensure UNEP participation. The seminar was run by UNDP's refrigeration training sector expert. The Govt. has informed UNDP that it was pleased with the effectiveness of the seminar.
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Sev	<u>Institutional Strengthening</u> INS	\$300,000	\$300,000	Mar 1993	2Q96	2Q96	Project document has been completed and is awaiting signature of the Govt. and UNDP in June 1993, following which funds will be transferred immediately and implementation can start.
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PHILIPPINES

Ref	<u>Training programme in the refrigeration sector</u> TRA	\$ 64,000	\$ 62,297	June 1991	2Q92	4Q92
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Five training courses and one seminar/conference were completed in the 2nd and 3rd quarter 1992 and all project activities were completed by Dec 1992. Over 150 service centre technicians were trained in refrigeration servicing and recycling procedures so as to cut CFC emissions. National consumer protection groups observed the training programme and have made recommendations for the expansion of this programme to all small-scale production, installation and repair service firms that use CFCs in the refrigeration sector.

Sev	<u>Country programme preparation</u> CPG	\$ 84,820	\$ 60,000*	Oct 1992	2Q93	2Q93
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Country programme has been completed and has been submitted for presentation at the 10th ExCom Meeting.

SRI LANKA

Sev	<u>Country programme preparation</u> CPG	\$ 35,000	\$ 35,000	Feb 1992	2Q93	4Q93
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National consulting firm undertaking the ODS survey to be ready by June 1993. CP formulation will start immediately thereafter. A one year delay was caused by disagreement over the national Ministerial lead agency. CP completion is expected by end-1993 with presentation at the 12th ExCom Meeting in early 1994.

THAILAND

Sev	<u>Training of Government technical staff</u> TRA	\$ 50,000	\$ 53,785	June 1991	2Q92	4Q92
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Activity completed. Several staff trained. Thru this activity the Government was able to initiate coordination and monitoring of Protocol-related activities in Thailand.

Sev	<u>Institutional strengthening of the Ozone Layer Protection Unit</u> INS	\$400,000	\$400,000	Mar 1993	2Q96	2Q96
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Project document has been completed and is awaiting signature by the Govt. and UNDP, following which funds will be immediately transferred and project implementation can start.

TRINIDAD AND TOBAGO

Sev	<u>Training of Government technical staff and preliminary work on country programme</u> TRA	\$ 53,800	\$ 25,000*	June 1991	4Q92	1Q94
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Very long delay due to abolition of the Ministry of Environment in Dec. 1991, the lack of a national counterpart and change of programme priorities. Following intensive communications in Feb/Mar 1993, the Govt. specified the need for refrigeration sector training and demonstration projects, and that CARIRI had been selected as the consulting body for CP formulation. Training activities will be specified in the CP for implementation.

Sev	<u>Country programme preparation</u> CPG	\$ 25,000	\$ 14,000*	Feb 1992	4Q92	4Q93
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As indicated above, the Govt. in March 1993 selected CARIRI to be the consulting body for CP formulation in association with UNEP and in conjunction with CP formulation for other Caribbean States. An agreement between UNDP and CARIRI is being finalized so that CP formulation can start in June 1993 and conclude by Dec. 1993. CP presentation is expected at the 12th ExCom Meeting in early 1994.

URUGUAY

Sev	<u>Consultant mission to assess technical assistance requirements</u> TAS	\$ 13,050	\$ 9,481*	June 1991	4Q91	4Q92
Sev	<u>Country programme preparation</u> CPG	\$ 27,000	\$ 9,688*	Oct 1992	2Q93	2Q93

Completed in October 1992. In addition to assessing technical assistance requirements, the consultants prepared the outline for the ODS reconnaissance study.

The ODS reconnaissance study was completed and CP formulation started in February 1993. The CP was finalized in April 1993, sent to the Fund Secretariat for comments and revised in May 1993. It is submitted for approval at the 10th ExCom Meeting.

VENEZUELA

Halon	<u>Workshops for the recycling and banking of halons</u> TRA	\$ 26,800	\$ 1,632*	Mar 1993	1Q94	1Q94
Ref	<u>Technical assistance and training of servicing technicians in the refrigeration sector</u> TRA	\$ 30,000	\$ 19,020*	Jun 1991	1Q92	2Q92
Ref	<u>Pilot programme in recovery and recycling of CFC-12 in domestic refrigeration</u> DEM	\$100,000		Mar 1993	1Q94	1Q94
Ref	<u>Workshops for identification of projects in the refrigeration and air conditioning sector</u> TRA	\$ 19,800		Mar 1993	4Q93	4Q93
Ref	<u>Workshops on conversion and installation of new non-ODS central A/C systems</u> TRA	\$ 39,600		Mar 1993	1Q94	1Q94
Sev	<u>Institutional strengthening</u> INS	\$329,192		Oct 1992	1Q96	1Q96

A national working on halons attended the Halon Alternatives Workshop in New Mexico during 11-13 May 1993 to review halon replacements and alternatives, specifically on characteristics of first and second-general halon replacements: toxicity issues, laboratory testing, fire suppression testing, decomposition studies, halon bank management, and misting technologies. This will directly assist in the design of the agenda and implementation of the Workshops.

Completed. Two national seminars on CFC usage in refrigeration systems and alternatives to CFCs were held in June 1992 in Caracas and Valencia. A training videotape produced will be used as a training aid for similar programmes in Latin America.

Newly approved. Implementation details being finalized with the Govt.

UNDP's refrigeration training sector expert helped conduct a ref/AC seminar during 12-14 May to help prepare at least four project ref/AC proposals. The first day covered central airconditioning alternative refrigerants and technologies for protecting the ozone layer. Day two was on HFC-134a and day three was spent on identification of alternative conversion refrigerants and technologies for the domestic and commercial refrigeration industry.

Newly approved. Implementation details being finalized with the Govt.

The disbursement schedule is being finalized with the Govt. On finalization, the project document will be signed by the Govt. and UNDP, following which funds will be immediately transferred and project implementation can start in June 1993.

REGIONAL

Foam	<u>Three low-CFC foam training and demonstration programmes in Asia, Middle East/Africa & Latin America</u> TRA	\$157,500	Feb 1992	4Q92	1Q94	The Middle East/Africa programme will take place in Cairo in Oct 1993 with the location likely being the Misr Foam Factory so as to demonstrate project applications using low-CFC foam technologies at Misr Foam as well as at other ongoing UNDP-implemented foam projects in Egypt. Locations for the Asia and Latin America regional demonstration programmes are being finalized. All technical and organizational arrangements are being coordinated by UNDP's foams sector expert. Activity completion is expected by March 1994.
Halon	<u>Two halons reduction/recycling training & demonstration programmes in Latin America and the Middle East</u> TRA	\$120,000	Feb 1992	4Q92	1Q94	These two regional programmes are being organized by UNDP in cooperation with USEPA and the Danish Institute of Fire Technology. The Middle East regional programme is scheduled for October 1993 in Cairo in coordination with EEAA. Participants would also be instructed in the use of halons recycling machines. At the request of USEPA, the Latin America regional programme is being delayed to after national activities are completed under the Global Halons Programme so as to be more effective. All technical and organizational arrangements are being coordinated by UNDP's halons sector expert. Activity completion is expected by March 1994.
Ref	<u>Six training and demonstration programmes in commercial/industrial refrigeration in Latin America (Spanish), South Asia, East Asia, Middle East, Africa (English) and Africa (French)</u> TRA	\$240,000	Feb 1992	4Q92	1Q94	The Latin America regional programme that focussed on centrifugal chillers was jointly sponsored by USEPA, UNDP and Mexico and was held during 27-28 July 1992 in Mexico City, attended by Argentina, Brazil, Panama, Uruguay & Venezuela. A Memorandum of Understanding between UNDP and UNEP/Paris was signed on 10 March 1993 where it was agreed that UNDP and UNEP/Paris would jointly implement the five remaining regional training/demonstration programmes, with UNDP transferring the remaining funds (\$216,953 + support costs) to UNEP/Paris thru the Fund Treasurer since UNDP cannot directly subcontract UNEP as per UNDP rules. The Treasurer's response on 10 May was that UNDP as responsible implementing agency must subcontract UNEP and make the financial transfer itself. Since this is not legally possible, UNDP is requesting the ExCom to remove the remaining balance of this activity from its work programme and designate UNEP as implementing agency so that the remaining funds can be sent thru the Treasurer to UNEP/Paris for implementation. UNDP's refrigeration training sector expert would assist UNEP in the training/demonstration components of these programmes.
Ref	<u>Three training/demonstration programmes in CFC recycling in MAC in Latin America, the Middle East and Asia</u> TRA	\$135,000	Feb 1992	4Q92	2Q94	These training/demonstration programmes have not yet started since UNDP has not yet recruited a suitably qualified MAC sector expert. It is expected that the selected expert would be on contract by mid-1993 and that the three regional programmes could then get underway. It will be tied to implementation of UNDP's Global MAC project which has started. Activity completion is expected only by mid-1994.

GLOBAL

Aerosol	<u>Technical assistance in aerosols</u> TAS	\$ 60,000	\$ 4,212*	Feb 1992	4Q92	4Q93
Foam	<u>Technical assistance in foams</u> TAS	\$100,000		Feb 1992	4Q92	1Q94
Halon	<u>Technical assistance in halons</u> TAS	\$ 70,000		Feb 1992	4Q92	1Q94
Halon	<u>Procurement of 40 halon recycling machines for demonstration</u> DEM	\$250,000	\$168,800*	June 1992	2Q93	3Q93
Halon	<u>Global Halons Project</u> TAS	\$345,133		Oct 1992	4Q94	4Q94

UNDP aerosols sector expert has been active since early 1993. Advisory services have been provided to China, India, Indonesia, Jordan and Malaysia. Other countries are being assisted on request, often in conjunction with World Bank investment project preparation missions since the UNDP expert is also the World Bank's aerosols OORG member. Activity completion is expected by end-1993.

This covers both flexible (\$40,000) and rigid (\$60,000) foams. The UNDP foams sector expert has since early 1993 been providing advisory services, so far to China, Egypt, Indonesia, Jordan, Malaysia and the Philippines. Other countries are being assisted on request, and advisory services to Ghana, India and Thailand, amongst others, are planned. In addition, the sector expert is responsible for coordinating technical and organizational arrangements for the three regional foams sector training/demonstration programmes in Asia, Middle East/Africa and Latin America. Activity completion is expected by 1st quarter 1994.

The UNDP halons sector expert has since early 1993 been providing advisory services, so far to China, Egypt and Malaysia. Other countries are being assisted on request, and advisory services to India, Indonesia and Thailand, amongst others, are planned. In addition, the sector expert is responsible for coordinating technical and organizational arrangements for the two regional halons reduction/recycling training and demonstration programmes in Latin America and the Middle East. Activity completion is expected by 1st quarter 1994.

Procurement of halons recycling equipment completed. In process of specifying ancillary equipments (compressors) based on specific country needs. Delivery completion in third quarter 1993.

This programme is coordinated by UNDP's halons sector expert in close coordination with the World Bank and USEPA. The global project sets out modalities for setting up national halons phaseout plans, implementation of phaseout strategies and setting up national halon management and banking systems. Initial programme implementation was discussed in Nov 1992 at Copenhagen and details were finalized at the China/USEPA halon-1211 recycling workshop in Beijing in April 1993. Provision of technical assistance and information on alternatives and available technologies and experience are under preparation in six countries, with activities coordinated with the two regional halons sector training/demonstration programmes.

Ref	<u>Technical assistance in refrigeration</u> TAS	\$ 90,000		Feb 1992	4Q92	1Q94	UNDP's refrigeration sector training specialist has been providing training and technical advice, and running demonstration programmes since early 1993, so far to Chile, China, Ghana, Kenya, Malaysia, Mexico, Nigeria and Venezuela. Other countries are being assisted on request. In addition, this specialist is responsible for training and demonstration activities at the five remaining regional commercial/industrial refrigeration sector workshops (implemented by UNEP). Activity completion is expected by 1st quarter 1994.
Ref	<u>Technical assistance in MAC</u> TAS	\$ 50,000		Feb 1992	4Q92	2Q94	Awaiting appointment of UNDP MAC sector expert which should be done by end-June 1993. Missions on request by China, Malaysia and Thailand.
Ref	<u>Global MAC project</u> TAS	\$318,584		Oct 1992	4Q94	4Q94	This global project is being implemented in coordination with the World Bank. A first project has already been identified which is a retrofit demonstration trial in China for 100 cars, half of which would use a ternary blend MP-52 (DuPont) and the other half would use HFC-134a (project cost: \$34,000). Other projects are being developed.
Solvent	<u>Technical assistance in solvents</u> TAS	\$ 50,000	\$ 29,767*	Feb 1992	4Q92	4Q93	The UNDP solvents sector expert has since April 1992 been providing advisory services, so far to China, India, Indonesia, Malaysia and Thailand. Other countries are being assisted on request. The sector expert is coordinating closely with World Bank and bilateral programmes in the solvents sector. Activity completion is expected by 4th quarter 1993.
Sev	<u>Three national policy workshops</u> TAS	\$ 45,000		Feb 1992	4Q92	4Q93	To be implemented in second-half 1993.
Sev	<u>Two study-tours for officials and industry representatives</u> TAS	\$ 50,000		Feb 1992	4Q92	4Q93	Study tour details being finalized. To be implemented in second-half 1993.
Sev	<u>Participation at workshops and key meetings</u> TAS	\$140,000	\$116,227*	Feb 1992	4Q92	4Q93	33 participants funded at key regional/international meetings, such as the International Conference on CFCs and Halon Alternatives (Oct 92, Washington, DC). Activity completion by end-1993.

FINANCIAL SUMMARY

UNDP's Work Programme under the Montreal Protocol

(as of end-June 1993 in US dollars)

COUNTRY/ REGION	MULTILATERAL FUND ALLOCATIONS	CUMULATIVE DISBURSEMENTS/ OBLIGATIONS	BALANCE
Argentina	25,000	-	25,000
Bangladesh	80,000	70,000	10,000
Brazil	25,000	25,000	-
Chile	25,000	25,000	-
China	2,955,000	1,488,195	1,466,805
Costa Rica	433,400	298,818	134,582
Cuba	22,600	15,000	7,600
Ecuador	100,000	60,000	40,000
Egypt	2,765,500	1,566,017	1,199,483
Ghana	672,000	5,200	666,800
India	630,000	480,000	150,000
Indonesia	200,000	20,000	180,000
Iran	315,550	250,550	65,000
Jordan	41,000	41,000	-
Kenya	315,100	184,852	130,248
Malaysia	372,520	322,520	50,000
Mexico	75,000	45,000	30,000
Nigeria	349,650	326,449	23,201
Philippines	148,820	122,297	26,523
Sri Lanka	35,000	35,000	-
Thailand	450,000	453,785	(3,785)
Trinidad & Tobago	78,800	39,000	39,800
Uruguay	40,050	19,149	20,901
Venezuela	545,392	20,652	524,740
	=====	=====	=====
COUNTRY TOTAL	10,700,382	5,913,484	4,786,898
Regional	652,500	-	652,500
Global	1,568,717	319,006	1,249,711
	=====	=====	=====
SUBTOTAL	12,921,599	6,232,490	6,689,109
Programme Mgmt.	676,500	515,589	160,911
	=====	=====	=====
TOTAL	13,598,099	6,748,079	6,850,020