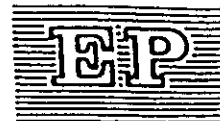




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Executive Committee of
the Multilateral Fund for the
Implementation of the Montreal Protocol

Twelfth Meeting
Montreal, 28-30 March 1994

UNEP PROGRESS REPORT

This document includes:

- Comments and recommendations of the Fund Secretariat
- UNEP Progress Report

COMMENTS AND RECOMMENDATIONS OF THE FUND SECRETARIAT

COMMENTS

1. UNEP is not involved in investment projects and therefore will not be directly involved in ODS phase-out and will not require legal agreements as other agencies to conduct their work programme activities except in the case of institutional strengthening and one case for information dissemination.

Work programme activities

2. Currently, UNEP has 66 activities in its portfolio excluding administrative costs such as travel and advisory services for which the Committee has approved over US \$700,000 since 1991 and the global clearinghouse activities for which the Committee has approved almost US \$1.7 million since 1991.

3. None of agreements with government for the eight institutional strengthening projects approved for UNEP implementation have been signed. Half of these projects were approved on or before June 1993 and the remainder were approved at the last Executive Committee meeting. The agreement required for the US \$200,000 information dissemination in the Philippines has not been signed, also.

4. UNEP is or has been involved in country preparation in 30 countries. Twelve of the country programmes prepared with UNEP assistance were completed before this reporting period. Three were completed during this period and are being presented to the Committee for consideration. Progress in country programme preparation since the last meeting was reported in 13 of 15 countries.

5. Global activities, such as workshops, training and other technical assistance projects are attributed to 20 activities excluding the clearinghouse function. Five of these activities were completed before this reporting period. One activity, the Regional Halon Workshop in Malaysia, was completed in January 1994. Progress was reported on five of the remaining activities.

6. UNDP reports that the number of documents acquired for the OzonAction library has increased with the addition of 303 documents since the last progress report. Approximately 250 technical and policy queries were answered by UNEP's query response service. The first diskette version of the online information exchange system is expected to be disseminated in the second quarter of this year.

Coordination

7. Coordination with other agencies was mentioned briefly in the progress report. Most coordination efforts mentioned concerned joint missions with the other agencies in the completion of country programmes. UNEP and UNIDO are cooperating in the development of a sectoral strategy for low-volume consuming countries.

RECOMMENDATION

8. The Fund Secretariat recommends that the Executive Committee take note, with appreciation, the progress report of UNEP.

1993 UNEP PROGRESS REPORT

UNDER THE MULTILATERAL FUND

UNEP IE/PAC

FEBRUARY 1994

1993 UNEP PROGRESS REPORT

(February 1994)

This Progress Report consists of:

- I. Elements of the OzonAction Programme.
- II. Highlights and achievements of 1993.
- III. Details of progress (October 1993 to February 1994. The details of earlier progress has been indicated in previous progress reports).
- IV. Lessons learnt by UNEP during 1993.
- V. Feedback mechanisms of UNEP to evaluate and monitor the programme.
- VI. Progress in standardized tabular form.

I. ELEMENTS OF THE OZONACTION PROGRAMME

UNEP's OzonAction Programme has been working to strengthen the capacity of Article 5 countries for efficient phase-out of ODS, since 1991, by meeting their informational and training needs. It has the following main elements:

- * **Information exchange** through the operation of an information clearinghouse.
- * **Training and networking activities** consisting of workshops, training courses, conferences and supporting training material (e.g. manuals guidelines, etc.).
- * **Country programmes** for low-volume ODS-consuming Article 5 countries and for non-Parties (with assistance from the Government of Finland).
- * **International Recycled Halon Bank Management Information Clearinghouse (IRHBMIC)**

The programme is advised by experts drawn from industry, governments and NGOs; and its activities are coordinated with the World Bank (WB), UNIDO and UNDP. Informal and Ad-hoc advisory groups are convened to guide the programme. The programme works closely with the UNEP Technology and Economic Assessment Panel and its associated committees. The needs of Article 5 countries are assessed through country programmes, projects approved by the Multilateral Fund's Executive Committee (EC), regional workshops, consultants, and during various networking activities. Various feedback mechanisms provide a means to assess the effectiveness of the OzonAction Programme.

II. HIGHLIGHTS AND ACHIEVEMENTS OF 1993 **(September 1993 - February 1994)**

1 HIGHLIGHTS:

The 1993 operation of the OzonAction Programme saw the emergence of following :

- * Having successfully piloted the network of ODS-officers (Focal Points) in South East Asia Pacific region, it was extended to the Latin American region.
- * Increasing number of smaller countries- having low-consumption of ODS-requested UNEP to assist them in Institutional Strengthening Projects.
- * UNEP utilized formal and informal feedback mechanisms to evaluate and monitor the Programme.
- * The diskette-version is utilized as another important delivery mechanism to meet the needs of Article-5 countries.
- * Close-association with UNEP Technology and Economic Assessment Panel and its Technical Options Committee resulted in focussing and up dating the activities of the Programme.
- * Programme continued to receive assistance from Government of Sweden for networking, and from Government of Finland for assisting non-Parties.
- * Parties to the Protocol mandated UNEP to act as information clearinghouse for Halon Bank Management.

2 ACHIEVEMENTS OF ALL OF 1993

Information Collection and Dissemination

- * The first sectoral ODS-free technology catalogue (Aerosol, Sterilants and Carbon tetrachloride) was quality reviewed and completed.
- * Acquired about 584 sector specific publications and abstracted over half of them (this represented 194% increase in acquisition and 170% increase on abstracting over 1992).
- * Completed the sectoral series of 5 volumes of "Protection the Ozone Layer" in 3 languages. Increasing requests has necessitated their reprint and bulk mailing.

- * Four quarterly issues of OzonAction Newsletter were published and disseminated in 5 languages all over the world. The great demand for past issues of this newsletter has necessitated their reprint.
- * Researched and responded to over 600 technical and policy queries.
- * Produced draft diskette version of OAIC containing 'sourcing' and 'pointer' information on phase-out activities and technologies. It was distributed and comments were received.

Training:

- * Training Courses on Improved Practices in Refrigeration and Air Conditioning were held in Accra, Ghana (October 93).
- * Training Courses on Improved Practices in Refrigeration and Air-Conditioning were held in Nairobi, Kenya (December 1993).
- * A Regional Halon Conference and Workshop was held in Kuala Lumpur 18-20 January 1994, targeting sectors where halons have been perceived as essential.

Networking

- * ODS officers network for South East Asia and Pacific triggered considerable activities in the network countries subsequent to the workshop in June 1993.
- * Network in Latin America has been initiated.

Country Programmes

- * 10 UNEP-assisted Country Programmes approved by Executive Committee in 1993.
- * 3 country programmes are completed and being submitted for approval at the 12th meeting of Executive Committee.
- * 7 countries where UNEP, with support of Government of Finland, started country studies when they were non-Parties have now become Parties. Their Country Programmes are being completed cost-effectively for submission to the Executive Committee.

Halon Bank Management

- * Set-up and operated Halon Bank Management information clearinghouse which saw phase-out of production of halons in non-article 5 countries.
- * Produced information papers and the "Halon Management: Banking for the Future" information kit.
- * Published and disseminated special supplement of OzonAction Newsletter on "Halon" on the eve of the phase out of halon production in developed countries.

III. DETAILS OF PROGRESS (from Oct'93 to Feb'94)

1. INFORMATION EXCHANGE

1.1. Maintenance of information collection

a) Sectoral data collection

Sectoral Catalogues of ODS-Free Technologies :

Content: Worldwide sourcing information on alternative technologies, products and services. Technology data sheets give advantages and disadvantages, including toxicity and other environmental effects.

Aerosols, Sterilants, Miscellaneous Uses and Carbon Tetrachloride sector:

- Draft catalogue and quality review completed by November 1993 and exhibited in 5th meeting of the Parties.
- Final version of catalogue will be printed in March 1994 and disseminated to all Article 5 National Ozone Units.

Flexible and Rigid Foams sector:

- Worldwide collection of data continued. Final draft expected at end of first quarter of 1994.
- Arrangements underway with Foams Technical Options Committee (TOC) for quality review.

Refrigeration, Air-conditioning and Heat Pumps sector:

- Draft catalogue exhibited in the 5th meeting of the Parties.
- Co-chair of Refrigeration TOC completed additional quality review.
- Incorporation of quality review comments into the final draft expected by April 1994.
- Final version of catalogue expected to be printed in second quarter of 1994 and disseminated to all Article 5 National Ozone Units.

Solvents, Coatings and Adhesives Sector:

- Cooperation with USEPA finalized in October.
- Quality reviewer (ICOLP) identified and retained.
- Initial worldwide data collection completed, draft catalogue produced and undergoing first quality review.
- Final version of catalogue expected to be printed in April 1994 and disseminated to all Article 5 National Ozone Units.

b) OzonAction library

Contents: Sector-specific technical and policy documents (reports, conference proceedings, journals, catalogues, etc) from industry, government, NGOs, etc.

- Acquired approximately 303 new documents for the OzonAction library from various organizations.
- Abstracted approximately 162 key documents/conference papers, selected with the assistance of the TOC chairpersons.
- Updated the following documents on a regular basis (disseminated to Article 5 users in hardcopy format):
 - *Sector-Specific Document Abstracts contained in the OzonAction Library;*
 - *National ODS Phase-Out Legislation and Regulations;*
 - *Standards and Codes of Practice;*
 - *OzonAction Library Keyword List.*

c) On-line Version

Content: On-line computerized information exchange system containing news bulletins, data bases (on contacts, publications, industry and country phase-out activities), downloadable files and a message centre.

- Monitored message centre daily, and performed required upkeep.
- Developed and updated news and sector-specific bulletins, and posted downloadable text files covering various topics.
- Updated the Contacts and Calendar of Events data bases on a monthly basis.
- Updated the National, Corporate, and International Organization Phase-Out Activities data bases as new information was collected.
- Printed the on-line OAIC *User Guide* and disseminated to all Article 5 National Ozone Units.

d) Diskette Version

Content: A diskette-based reference tool targetted at national ozone units containing data bases on technical/policy literature, contacts, and research findings. This diskette will be updated and disseminated on a regular basis.

- Finalized programming of diskette software, and completed initial data input activity.
- Distributed a draft version of the diskette to selected participants at the 5th Meeting of the Parties (Bangkok - see "Feedback Mechanisms" for more details).
- The first version is expected to be disseminated to all Parties' National Ozone Units in second quarter of 1994.

1.2. Maintenance of information dissemination

a) Query response service

- Researched and responded to approximately 250 technical and policy queries from, inter alia, National Ozone Units, industry, industry associations, research institutes, and NGOs.

b) Publications of technical and policy documents

- The ninth issue of *OzonAction Newsletter* was published in December 1993 in English, French, Spanish, Arabic and Chinese.

c) Outreach to promote the OzonAction programme and coordinate efforts with other stake-holders

- Greenpeace Ozone-Safe Cooling Conference (Washington, D.C., 18-19 October 1993);
- International CFC and Halons Alternatives Conference (Washington, D.C., 20-22 October 1993);
- Meeting of the UNEP Technical and Economic Assessment Panel (Washington, D.C., 25-26 October 1993);
- 5th Meeting of the Parties and preparatory meetings (Bangkok, 17-19 November 1993)

2 TRAINING AND NETWORKING ACTIVITIES

Following is the status of activities which were approved in March 1993 by the Executive Committee (activities under the 1992 Work Programme have already been completed). Activities under the ODS Officers Network for Southeast Asia/Pacific (ODSONET/SEAP) which are not funded by the Multilateral Fund are also included.

2.1 Training

Sector: *Refrigeration and Air-conditioning*

Title: *'Train the Trainer' programme (as per UNDP 1992 work programme and transferred to UNEP in June 1993)*

Country: Ghana

Status: 42 participants, who will later become trainers, received training on improved maintenance and servicing practices in the field of refrigeration, and also had extensive hands-on practice with five recovery and recycling units that will be part of future training activities in Ghana.

The local institutes (i.e. Accra Technical Training Center [ATTC], and the National Refrigeration Workshop Owner's Association [NRWA]), cooperated with the Ministry of Environment of Ghana and UNEP/UNDP, in the organization of this training course. The report of the training course is this available.

Future activities/expected results: As part of the training programme one plan has been prepared, to continue the cooperation with local insitutions, government and UNEP/UNDP of establishing the National Refrigeration Center (NRC) at the ATTC, and a implementation of the National Training Programme in Refrigeration. In the medium term, the programme is expected to result in reduction of consumption of CFC's in servicing sector. (see Work Programme 94)

Title: *Training and demonstration programme (as per UNDP's 1992 Work Programme and transferred to UNEP in June 1993).*

Country: Kenya

Status: 34 participants, who will later become trainers, received training on good maintenance and servicing practices in the field of refrigeration, and also had extensive hands-on practice with five recovery and recycling units that will now be part of future training activities in Ghana.

The training courses were organized with the cooperation of the Ministry of Environment of Kenya and involvement of local institutions, i.e. Kenya Polytechnic (KP).

The report of the training course is being readied for distribution.

**Future activities/
expected results:**

This cooperation will continue with the establishment of the NRC at the KP, and the designing of a National Training Programme in Refrigeration, which was to be included in the country programme currently being drafted. (see Work Programme 94)

Title: *Regional Workshop on Refrigeration and Air-Conditioning Training Programmes*

Region: South East Asia

Status: The workshop will be held in Jakarta, 11-15 April 1994. Target groups are training organisers such as training institutes, trade associations/industry and ODS Officers, who will later be involved in the organisation of training courses at a national level, and the creation of related legislative and/or administrative infrastructure.

In addition to the experience from the training courses in Ghana and Kenya, Australia will contribute through its expertise, based on their experience in training of refrigeration technicians on reduction of ODS. The workshop will be organized in cooperation with the network in South East Asia & Pacific (ODSONET/SEAP) and the Australian experts.

***Future activities/
expected results:***

The participants will start planning their national training programmes and related legislative and administrative infrastructure during the workshop and would follow this upon return to their own countries. UNEP will follow up the results achieved through ODSNET/SEAP.

Title:

Training courses on centrifugal chillers (as per UNDP's 1992 Work Programme and transferred to UNEP in June 1993).

Region:

Asia and the Pacific

Status:

The training courses as conceived earlier by UNDP are based on the course conducted in Mexico (jointly with US EPA, UNDP and UNEP). The lessons learnt there are being analyzed and planning is underway with industry associations.

These training courses would address the following issues:

- Optimum purge losses by good operation practices and efficient purge recovery units;
- On-site recovery recycling in older chillers and during maintenance;
- Planning for phase-out of older chillers and retrofitting these which are cost effective;
- Putting in place a policy of presenting new installations using CFC's.

The concept of these training courses will now be interlinked with the Regional Workshop on Refrigeration and Air-conditioning Training Programmes in Jakarta, April 1994, as national follow-up activities. They are scheduled to be implemented during the second half of 1994. Contacts with potential candidate countries for these national training activities are being made.

A training manual on centrifugal chillers based on the Mexico training course and adapted to the needs of developing countries is being finalized. It will be used as support material for these training courses.

***Future activities/
expected results:***

These training courses are expected to create the necessary national capacity to design and implement national training programmes and other measures, to promote expeditious reduction of ODS consumption in the chiller sector.

In the medium term, it is expected that these training courses will achieve a cost/time effective reduction in ODS consumption in the chiller sector.

Sector: *Halons*

Title: *Regional Halon Conference and Workshop*

Region: South/Asia

Status: The workshop was held in Kuala Lumpur, 18-20 January 1994. Around 220 participants from 10 countries attended.

Target groups were key actors within sectors where halons have been perceived as essential (e.g., defense, telecommunication, the petroleum industry and civil aviation), as well as fire protection authorities and insurance companies. Speakers included authoritative experts from these sectors, several of them members of UNEP Halon Technical Options Committee. Emphasis was placed on practical examples of alternative fire protection strategies and case-studies, as well as on halon bank management.

**Future activities/
expected results:**

ODS Officers from ODSONET/SEAP were actively involved, inter alia in identifying key actors within their own countries. The workshop is expected to trigger concrete activities, within the targeted sectors as well as by government officers, to eliminate the use of halons and initiate halon bank management (including investment projects). Feedback from ODS officers indicate that such actions are already forthcoming. UNEP will follow up on the results through ODSONET/SEAP..

Sector: *Aerosols*

Title: *Regional Training Course*

Region: Middle East

Status: The training course will be held from 22 to 24 March 1994, in Amman, Jordan. 12 countries are expected to attend (9 Parties and 3 non-Parties). Participation by non-Parties is being supported by Government of Finland.

The target participants are enterprise owners, Chief Executive Officers and ODS Focal Points. About 2000 TPA of CFCs are being consumed in the aerosol sector in this region. The training course would present the proven alternative technologies, safety aspects and financial/technical assistance available. The course would be conducted in close association with UNEP Aerosol TOC members, industry and the Government of Jordan.

***Future activities/
expected results:***

It is expected to expeditiously identify the aerosol conversion projects and assist in their efficient implementation. The activity is being coordinated with World Bank experts working on aerosol projects.

2.2 Networking (ODSONET)

Title: *ODS Officers Networks for Southeast Asia and the Pacific (ODSONET/SEAP)*

Region: South East Asia/Pacific

Status: A follow-up and Planning Meeting for ODSONET/SEAP was held in Bangkok 27 November 1993. The meeting reviewed progress since the 1993 ODSONET/SEAP Workshop and decided on the agenda for the 1994 Workshop. For examples of progress made, see Section III, 1, 5 of UNEP's 1994 Work Programme.

***Future activities/
results expected:***

The 1994 ODSONET/SEAP Workshop will be held in June 1994, tentatively in Jakarta or Hanoi. As mentioned above, the workshop will, inter alia, follow up on actions taken in network countries after the Halon Workshop in Kuala Lumpur and the Refrigeration Workshop in Jakarta. It will also plan the involvement of network members in up-coming workshops on chillers and activities under UNEP's 1994 Work Programme in the region and further review progress and problems in other sectors.

Title:	ODS Officers Networks for Latin America (ODSONET/LA)
Region:	Latin America
Status:	ODS Officers' Networks for South America (ODSONET/LA-S) Network activities have been initiated. Members of the network are now all countries in South America which are Parties to the Protocol, except Paraguay. US, Switzerland and Canada are being invited. ODS Officers' Network for Central America (ODSONET/LA-C): Positive response to invitations to participate in the network has been received from all Spanish-speaking countries Central America and the Caribbean and Mexico (the formal response from Panama is not yet received but is said to be processed). Developed country participants are yet to be defined.
Future activities/ results expected:	The first workshop for ODSONET/LA is scheduled for 16-20 May, 1994. The agenda and documentation for the workshop is being prepared and translated. Dates, venue and agenda for the first ODSONET/LA-C workshop will be discussed with network members (it is likely to be held in the third quarter of 1994).

2.3 Training and information material

First drafts of the following manuals are ready and the quality review process is underway.

Sector: **Refrigeration**

- a) *Manual/Guidelines on Good Maintenance and Service Practices* including recovery and recycling for small and medium sized refrigeration systems. The manual is targeted at refrigeration training institutes and service engineers. It will be ready by second quarter of 1994.
- b) *Technical Directory of Recovery and Recycling Machines in Refrigeration* incorporating technical guidelines on how to select recovery and recycling machines. The manuals will be targeted at ODS officers, Focal Points and service engineers. It will be ready by second quarter of 1994.

- c) *Training Manual on Centrifugal Chillers.* The manual is based on the one prepared for the Mexico training course (done in 1991 jointly by USEPA, UNDP and UNEP) and is targeted at trainers in the industry. It will be ready by second quarter of 1994.

Sector: *Aerosol*

- a) *Handbook on "Conversion Technology"* for the aerosol sector; including safety issues. It is oriented to manufacturers, and fillers and users in the aerosol industry will be ready by second quarter of 1994.

Sector: *Several*

- a) *Practical Guide to Policy Guidelines for Industry on Management of Phase-out of ODS .* The guidelines are targeted of CEO's and managers of SME's. It will be ready by second quarter of 1994.
- b) *Elements for Establishing Policies, Strategies, Policies and Institutional Framework for Ozone Layer Protection.* These guidelines are being prepared for ODS-officers/Focal points. It will be ready by second quarter of 1994

3.2.4 Participation in Workshops/Conference

- Participated in the following meetings as part of the coordinating efforts with other stake-holders in the implementation process:
 - * Coordination meeting of the Implementing Agencies - Multilateral Fund, 4 October 1994, Montreal, Canada
 - * 4th OORG Meeting, World Bank and 1st OORG Refrigeration/Freezer Insulating Foam Working Group, 18-19 October 1994, Washington DC, U.S.A.
 - * 1993 International CFC and Halon Alternatives Conference, 20-22 October 1994, Washington DC, U.S.A.
 - * 5th meeting of the Parties to the Montreal Protocol and preparatory meetings, 15-20 November 1994, Bangkok, Thailand.

3 COUNTRY PROGRAMMES

3.1 Country programmes for Article 5 countries

(a) *Country Programmes completed*

The following country programmes have been completed and are approved by the respective Governments. These are being submitted for the consideration of 12th Executive Committee meeting: Cote d'Ivoire, Malawi and Sudan. UNEP, with the support of the Trust Fund of the Government of Finland, started the country studies for Cote d'Ivoire and Sudan when they were non-Parties

(b) *Country Programmes under formulation:*

UNEP IE/PAC is conducting the Country Programmes for 14 Article 5 countries. Phase I includes consultation with the national team and conducting the ODS survey. The Phase II includes analysis of ODS data, formulation of a national strategy and action plan, identification and prioritization of specific projects and drafting of country programme report in consultation with the national team.

The following country programmes are under formulation:

Country	Status
Antigua y Barbuda:	Phase I planning is underway
Bahamas:	Phase I planning is underway
Barbados:	Phase I is ongoing
Botswana	Phase I visit has been carried out, and an industry workshop is being planned after completion of phase I
Gambia:	Phase I planning is underway
Guinea:	Phase I planning is underway
Niger:	Phase I is ongoing
Pakistan:	Phase I is ongoing
Peru:	Agreement being worked out with the Government

Seychelles:	Phase I is ongoing
Tanzania:	Phase I visit has been carried out
Togo:	Phase I visit completed. ODS survey get to start, due to uncertain situation
Uganda:	Draft report is being reviewed by the Government. Expected to be presented for approval and funding to the 13th Executive Committee Meeting
Zimbabwe:	Phase I visit has been carried out. An Industry workshop is being planned after completion of phase I

3.2 Country programmes for non-Parties.

UNEP IE/PAC, with support from Trust Fund of the Government of Finland, assists non-Parties to formulate their country programmes. These studies/programmes will help these countries when they become Parties to the Protocol, as only updating of the programme would be necessary, thus saving time. It is also a major exercise in training the government and industry on Montreal Protocol and phase-out related issues.

The following countries for which country studies started when they were non-parties, have now become parties and are able to take lead-initiative in country programme: Colombia, Vietnam and Pakistan.

The following studies are being conducted for non-Parties: Bolivia, Chad, Congo, Dominican Republic, Ethiopia, Gabon, Morocco and Mozambique.

4 INTERNATIONAL RECYCLED HALON BANK MANAGEMENT INFORMATION CLEARINGHOUSE (IRHBMIC)

The activity is being carried out in close consultation with Co-chair and members of Halon TOC to coordinate the small clearinghouse's current and planned activities.

4.1 Halon Management: Banking for the Future information kit:

Content: An easy to read primer on halon banking, How to obtain Halons, essential uses and contacts for further assistance.

- Produced this publication in close cooperation with the Halons TOC members.
- Disseminated the kit at the 5th Meeting of the Parties (Bangkok), and mailed copies to each Article 5 national ozone unit.

4.2 Other Documents:

- Updated the following hardcopy documents, and disseminated to Parties upon request:
 - Halon Banking Document Abstracts (abstracts and ordering information for technical reports, conference papers, and other publications in the ozonaction library that relate to halon banking and halon alternatives);
 - National Halon Banking Sourcebook (background material on halon banking, up-to-date contact list and description for the National Halon Banks, and estimates of recycled halons available).

4.3 At the UNEP Regional Halon Workshop (Kuala Lumpur, 18-20 January 1994), conducted the following activities:

- presented IRHBMIC activities and encourage participants to use the clearinghouse's services;
- disseminated halon banking/alternatives literature;
- obtained feedback about developing country concerns related to halon alternatives and halon banking.

4.4 Halons, a Special Supplement of OzonAction Newsletter

- Chinese and Arabic versions have been widely disseminated.

4.5 Case study logbook on alternatives to halon

Content: Examples of successful replacement of Halon Fire Protection in developed countries, in a loose-leaf, case study format.

- Format approach finalized in December 1993
- Preliminary data expected end February 1994
- 1st draft planned for April 1994

5 COORDINATION WITH OTHER IMPLEMENTING AGENCIES

UNEP, UNIDO and World Bank would undertake joint missions to countries to identify the projects for funding along with submission of the country programme. This has been done in case of Pakistan with the World Bank. UNDP and UNEP co-operated to complete the country programme for Colombia.

UNEP would assist UNIDO in developing sectoral strategy for low-volume consuming countries.

IV LESSONS LEARNT BY UNEP DURING 1993

1 ON INFORMATION EXCHANGE

- No single delivery mechanism can be universally used for disseminating the information. It should be tailored to country specific needs and hence a combination of hard copy mailing , fax, telephone, diskettes and on-line modes should be utilized.
- Awareness raising is not "once and for all" process. It requires continued efforts.
- Sharing of experience -bilaterally as well as multilaterally- at the peer level is essential to ensure that disseminated information is utilized for ODS phase-out.
- The costs of operating on-line systems in larger countries are coming down.
- No adequate information is available on phase-out activities in countries whose economies are in transition, and the experience there remains unshared.
- Activities should have a communication strategy to reach the target users/stakeholders. Such a strategy needs the elements on type of information needed and definition of channelling paths.

2 ON TRAINING

- The definition of the target group for a given training activity is one of the most important factors for its success. Selection of the participants after the definition will have to be done in close co-operation with the ODS officer.
- The process of reaching out to the right participants is time consuming; hence, more time must be allowed for the organization and planning of training activities.
- Active participation by other implementing agencies leads to effective interaction and early identification of investment projects, as well as follow-up on training activities.

- In the refrigeration sector, in particular for regional activities, strengthening of institutional infrastructure would support the continuation of training activities and enhance a lasting effect in phase-out in servicing sector. The focus should be on technicians as well as those persons who will be later involved in planning, organizing and implementing training courses and in establishing a related national organisational and legal infrastructure.
- Follow-up activities to the training courses require additional resources.

3 ON NETWORKING

- Networks for ODS Officers can be forceful tools to limit further increases in the consumption of ODS, inter alia, by preventing new installations using CFCs, thereby reducing future costs to the Multilateral Fund.
- A well-designed system to monitor ODS consumption on a regular basis is important in order to follow-up and adjust, when needed, the strategies chosen in the country programme.
- It is crucial that training activities and investment projects are interlinked with, and backed up by, government policies and strategies; the detailed design is important and exchange of experience among ODS Officers is therefore important.
- Networking of ODS-officers may help to prevent "dumping" of CFC-based technology and equipment from developed countries, both for environmental and economic reasons from developed countries.

4 ON COUNTRY PROGRAMMES

- Cost effective methods to formulate the country programmes for very-low ODS consuming countries are needed.
- Sharing of experiences of consultants working on Country Programme and project preparation would contribute to efficient phase-out activities. Their feedback will be of importance to evaluate phase-out activities.

V. **UNEP's FEEDBACK MECHANISMS TO EVALUATE AND MONITOR THE PROGRAMME**

All the clearinghouse activities mentioned in this progress report have been supported by a number of feedback mechanism that allow UNEP to continually evaluate and monitor its activities. The feedback received are used for preparing the 1994 - Work Programme. These activities, include, inter alia:

- a) Hosted an *Informal Roundtable on Information Exchange* (Paris, 1 October 1993) to obtain feedback on UNEP IE/PAC's information collection and dissemination activities. Meeting included a chairman and member of the Economic Options Committee, a representative of an Article 5 National Ozone Unit, and network members.
- b) In cooperation with USEPA, co-hosted the *Roundtable Discussions for Knowledge-Sharing Networks for ODS Phase-Out* (Washington, D.C., 22 October) in order to share information and experience on information exchange, and to collect feedback from Article 5 countries on their needs. The report of the Roundtable is available.
- c) Hosted the *Informal Advisory Group* (Paris, 1 February 1994) to exchange ideas on improving UNEP IE/PAC's information exchange services, and obtain suggestions for the future activities of UNEP IE/PAC's clearinghouse function. This group is comprised of representatives of Article 5 countries, developed countries, Implementing Agencies, Fund Secretariat, and NGO's.
- d) OzonAction Newsletter and Computerized OzonAction Information Clearinghouse reader/user survey
 - Initial statistical analysis of the returned questionnaires has been carried out;
 - survey results report as well as management analysis report expected to be ready for distribution at the end of March.
- e) Contacted all Article 5 National Ozone Units to request their input into UNEP IE/PAC's proposed 1994 Work Programme, in order to better address their information and training needs.
- f) As part of the development process of the OAIC Diskette Version, requested feedback from National Ozone Units, the implementing agencies, and the Multilateral Fund Secretariat on the appropriateness of the diskette as a delivery mechanism for Article 5 countries, the quality of its contents, its operation, etc. This feedback will be addressed in the next versions of the diskette, expected during 1994.

- g) Hosted the Solvents TOC Meeting (Paris, 28 January 1994). This gave UNEP the opportunity to review the data collection activities in solvent sector and to discuss with TOC members the preparation of case-studies and revision of ODS free technology catalogue.

IV. PROGRESS IN STANDARDIZED TABULAR FORM

(Please see attached.)

IV PROGRESS IN STANDARDIZED TABULAR FORM

has been included in the

Consolidated Progress Report UNEP/OzL.Pro/ExCom/12/7

Project Title	ODS to be approved	Date of approval	Approved Funding	Time frame	Status of implementation
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Country or	Project Title	ODS to be phase-out	Date of approval	Approved Funding	Time frame	Status of implementation
WANA						
al	Country programme preparation Country programme preparation		Feb 1992	\$40,000	1993-1994	Phase I visit has been carried out, and an industry workshop has been planned as part of finalizing Country Programme. Expected to be submitted to 13th meeting of ExCom.
INA FASO						
al	Country programme preparation Country programme		Feb 1992	\$30,000	1992-1993	Completed, approved by the 11th ExCom meeting
	Institutional Strengthening		Nov 1993	\$83,500	1994-1996	Agreement with government being finalized. Activities to start in 2nd quarter 94.
	Customs training training		Nov 1993	\$14,500	1994	Planning underway. Meeting held to decide contents and target trainees.
igeration	Training of repair technicians Training		Nov 1993	\$41,500	1994	Planning ongoing

Country Sector	Project Title	ODS to be phase- out	Date of approval	Approved Funding	Time frame	Status of implementation
Refrigeration	Implementation of train the trainer programme and national demonstration programme Training		Jun 1993	\$99,000	4th quarter 1993	Funds transferred to UNEP in June 93. First two training courses completed in October 1993. Establishment of NRDC (National Refrigeration Demonstration Centre) is in the process.
GENERAL						
General	Country programme preparation Country Programme		Feb 1992	\$30,000	1992-1993	Completed. Country programme approved at 10th ExCom
General	Institutional Strengthening		Jun 1993	\$172,000	1994-1996	Agreement with Government being finalized. Planning underway
UNEP						
	Country programme preparation		Nov 1993	\$40,000	1994	Phase I planning is underway
UNEP						
Refrigeration	Support to a national workshop on refrigeration Training		Jun 1993	\$115,000	4th quarter 1993	Funds transferred in June 1993 to UNEP. First two training courses completed in December 1993. Establishment of NRDC is being planned.
UNEP						
General	Country programme preparation Country Programme		Feb 1992	\$30,000	1992-1993	Completed. Country Programme to be presented to 12th Excom.

Country Sector	Project Title	ODS to be phase- out	Date of approval	Approved Funding	Time frame	Status of implementation
LDIVES						
veral	Country programme preparation Country Programme		Jun 1991	\$25,000	1991-1992	Completed, Country programme approved in 10th ExCom Meeting
URITIUS						
veral	Country programme preparation Country programme		Mar 1993	\$10,000	Mar 1993-Jun 1993	Country Programme started when country was Non-Party. Completed, Country programme approved in 10th ExCom Meeting
veral	Institutional Strengthening		Jun 1993	\$50,000	1994-1996	Agreement being finalized with Government. Concret actions to start second quarter 1994.
KISTAN						
veral	Country programme preparation Country Programme		Mar 1993	\$60,000	1993-1994	Phase I visit Completed
NAMA						
veral	Country programme preparation Country Programme		Feb 1992	\$30,000	1992-Jun 1993	Completed, Country programme approved in 10th ExCom Meeting
veral	Institutional Strengthening		Jun 1993	\$172,500	1994-1996	Agreement being discussed with the Government. Concrete actions to start 2nd quarter 94.

Country or Territory	Project Title	ODS to be phase-out	Date of approval	Approved Funding	Time frame	Status of implementation
Central Philippines	Country Programme preparation		Nov 1993	\$50,000	1994	Planning underway
Central	Information dissemination project		Nov 1993	\$200,000	1994	Agreement with country is being finalized
Central	Country programme preparation Country programme		Nov 1993	\$10,000	1994	Country Programme started when country was non-party. Completed. Country Programme approved by 11th ExCom.
Central	Institutional strengthening		Nov 1993	\$175,000	1994-1996	Agreement with government being finalized. Concrete actions to start 2nd quarter 94.
Central	Expansion and upgrading of statistics network on customs technical assistance		Nov 1993	\$26,000	1994	Planning underway. Meeting held to decide contents and target trainees
Central	Training and upgrading of repair technician training		Nov 1993	\$58,000	1994	Under planning
Central	Country Programme preparation		Nov '93	\$30,000	1994	Draft country programme is getting ready

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Country or Agency	Project Title	ODS to be phase- out	Date of approval	Approved Funding	Time frame	Status of implementation
UN	Country programme preparation Country programme		Nov 1993	\$10,000	1994	Country programme started when country was Non-Party. Completed. Country programme to be presented at 12th Excom.
IDA	Country programme preparation Country Programme		Jun 1991	\$25,000	1991-1992	Country programme completed. Approved at the 11th ExCom Meeting.
AFRICANA	Complement for Country programme preparation Country programme		Nov 1993	\$10,000	1994	Country programme started when country was not party. Phase I visit completed. ODS survey being carried out.
IDA	Country programme preparation Country Programme		Feb 1992	\$30,000	1992-1993	Phase I visit completed. ODS- survey yet to start due to uncertain situation.
IDA	Country programme preparation Country Programme		Jun 1991	\$25,000	1991-1993	Draft report is being reviewed by the Government. Industry meeting being planned to discuss the draft. Expected to be presented for approval and funding at 13th ExCom Meeting.

Country or Region	Project Title	ODS to be phase- out	Date of approval	Approved Funding	Time frame	Status of implementation
IA ral	Country programme preparation Country Programme		Jun 1991	\$25,000	1991-1992	Completed. Country programme approved at 8th ExCom Meeting
	Institutional Strengthening		Mar 1993	\$75,600	2 years (1993-1994)	Agreement being discussed with the government
ABWE ral	Country programme preparation Country programme		Mar 1993	\$40,000	1993-1994	Phase I completed. ODS-Survey is nearing completion. Industry workshop being planned to discuss draft country programme.
ON: ral	AFR Regional Workshop for African region Training		Feb 1992	\$210,000	Dec 1992	Completed. Workshop held in Nairobi, Kenya.
geration	Regional training course on refrigeration for Africa Training		Feb 1992	\$90,000	Dec 1992	Completed. Training Course was held in Nairobi, Kenya for 11 countries from Africa
geration	Regional Training Course on Centrifugal chillers for English Speaking Africa Training		Jun 1993	\$48,000	1994	Funds transferred from UNDP in Jun '93. Countries being contacted to plan and structure the national training course in the region.

Country Sector	Project Title	ODS to be phase- out	Date of approval	Approved Funding	Time frame	Status of implementation
Refrigeration	Regional Training Course on Centrifugal chillers for French Speaking Africa Training		Jun 1993	\$48,000	1994)	Funds transferred from UNDP in Jun '93. Countries being contacted to plan and structure national training course in the region.
Refrigeration	ASP					
Refrigeration	Regional Workshop for the Asia-Pacific region Training		Jun 1991	\$217,000	Nov 1991	Completed. Workshop held in Jomtien, Thailand.
Refrigeration	Regional Training Course on Centrifugal chillers for East-Asia		Jun 1993	\$48,000	1994	Funds transferred from UNDP in Jun '93. Countries being contacted to plan and structure national training course in the region.
Refrigeration	Regional Training Course on Centrifugal chillers for South-Asia		Jun 1993	\$48,000	1994	Funds transferred from UNDP in Jun '93. Countries being contacted to plan and structure national training course in the region.
Refrigeration	Regional Workshop on Refrigeration and Air- Conditioning Training Programmes for SouthEast Asia/Pacific		Mar 1993	\$90,000	April 1994	Scope and concept broadened. Workshop to be held in Jakarta, 11-15 April in cooperation with Australia.
Refrigeration	Regional Halon Workshop, to be organized by Malaysia for Southeast Asian Countries		Mar 1993	\$80,000	January 1994	Completed. Workshop held in Kuala Lumpur, Malaysia, 18-20 January 1994.

Country or Organization	Project Title	ODS to be phase-out	Date of approval	Approved Funding	Time frame	Status of implementation
Latin America and the Caribbean	Regional workshop for Latin America and the Caribbean Training		Jun 1991	\$217,000	May 1992	Completed. Workshop held in Caracas, Venezuela
Latin America and the Caribbean	Support to regional network for ODS Officers Technical assistance		Mar 1993	\$130,000	1 year	1st Workshop for South American countries scheduled for May 1994. 1st Workshop for Central American countries scheduled for 3rd quarter 1994
Latin America and the Caribbean	Aerosol Conversion Training Course		Mar 1993	\$90,000	1st quarter 1994	Being organized. Training Course will be held in March 1994
Latin America and the Caribbean	Regional training Course on Centrifugal Chillers for Mid-East		Jun 1993	\$48,000	1994	Funds transferred from UNDP in Jun '93. Countries being contacted to plan and structure national training course in the region.
Arab World	Regional workshop for Arabic speaking countries Training		Jun 1991	\$217,000	Dec 1991	Completed. Workshop held in Cairo, Egypt

Country Sector	Project Title	ODS to be phase- out	Date of approval	Approved Funding	Time frame	Status of implementation
Bosnia on	Conversion technology manual/handbook Technical assistance		Mar 1993	\$40,000	1 year	Draft ready, being quality reviewed. Will be finalized by second quarter of 94
	International halon bank clearing-house function Technical assistance		Mar 1993	\$100,000	1 year	Query response service on national halon bank being operated. Technical documents and information kit prepared and disseminated. Special supplement on Halon-Ozone Action Newsletter published.
	Preparation of training material for refrigeration sector technical assistance		Mar 1993	\$160,000	1 year	
Rigeneration	Manual/Guidelines on Good Practices					Draft ready, review process underway. To be finalized by 2nd quarter of 94
	Technical Directory of R+R machines					Draft ready, review process underway. To be finalized by 2nd quarter of 94
	Training Manual on Centrifugal Chillers					Draft ready, review process underway. To be finalized by 2nd quarter of 94

Entry number	Project Title	ODS to be phase- out	Date of approval	Approved Funding	Time frame	Status of implementation
General	Practical guide to Policy guidelines for Industry on Management of phase- out in SMEs					Draft ready, review process underway. To be finalized by 2nd quarter of 94
General	Elements for establishing Policies, strategies and Institutional Framework for Ozone Layer Protection (for National Ozone Units/Focal Point)					Draft ready, review process underway. To be finalized by 2nd quarter of 94
General	Ozonaction Newsletter		Mar 1993	\$130,000	1 year	Four issues published in 5 languages (English, French, Spanish, Arabic and Chinese) See LAC region
General	Support to networking activities Technical assistance		Mar 1993	\$30,000	1 year	
General	Support to other national training activities Training		Mar 1993	\$50,000	N/A	Participants from developing countries supported for training/workshops.
General	Development of a training strategy training		Mar 1993	\$100,000	1 year	The experience and lessons learnt being reviewed. Approach paper being updated. Draft strategy expected by 3rd quarter of 1994

Project Title	Date of Approval	Approved Funding	Time Frame	Status of Implementation
OAIC Library Activities Document Repository, acquisition				More than 700 references abstracted to date, about 1500 technical and policy documents acquired, 7 sector specific information documents for dissemination, updated keyword list
On-line OAIC System Maintenance				System maintained (regular updates, of contact database, news bulletins, country activities, monitoring, of message centres & maintenance)
OAIC Diskette				Draft version produced and distributed for comments at 5th Meeting of the Parties. First version will be disseminated to focal points by April 1994.
Query Response Service				On-going. More than 600 technical and programmatic queries responded.
Publication dissemination				Publication list updated. Technical brochures information kit being disseminated at conferences and upon requests.
Outreach activities				Publication disseminated, data collected during conferences/workshops through exhibition booths and desks