

Distr.
LIMITED

UNEP/OzL.Pro/ExCom/18/19
30 October 1995

ORIGINAL: ENGLISH

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

Eighteenth Meeting
Vienna, 22-24 November 1995

PROJECT PROPOSAL: BARBADOS

This document includes the Comments and Recommendations from the Fund Secretariat on the following project:

- CFC Recovery, Recycling and Training in Refrigeration.

UNIDO

PROJECT EVALUATION SHEET BARBADOS

SECTOR: **REFRIGERATION** ODS use in sector (1993): 32.3 ODP tonnes
 CFC RECOVERY AND RECYCLING

Project Title:

CFC recovery, recycling and training in refrigeration*

Project Data	Recovery and recycling*
ODS phase-out (ODP tonnes)	14.0
Proposed project duration (Yrs)	3
Incremental capital cost (US \$)	165,170
Contingency (%)	10
Incremental operational cost (US \$)	0
Total project cost (US \$)	165,170
Local ownership (%)	-
Export component (%)	-
Amount requested (US \$) {Original	212,938
{Revised	165,170
Cost effectiveness (US\$/kg)	11.90
National Coordinating Agency	Ministry of Health and Environment, Environment Division
Implementing Agency	UNIDO
Technical review completed?	Yes

Secretariat's Recommendations

Amount recommended (US \$)	165,170
Project impact (ODP tonnes)	14.0
Cost effectiveness (US \$/kg)	11.80
Implementing Agency support cost (US \$)	21,472
Total cost to Multilateral Fund (US \$)	186,642

* New proposal to the 18th Meeting

PROJECT DESCRIPTION

1. The project will minimize the release of CFCs during servicing and disposal of refrigeration equipment through implementation of a national programme for recovery and recycling of refrigerant and training of service technicians.
2. A recovery and recycling nation-wide network comprised of 25 recovery and recycling machines will be established, at a cost of US \$104,700. The recovered CFC will be reused in equipment of the same type as that from which it was removed. In total, 14.0 tonnes of CFC will be recovered and recycled each year.
3. A training programme will be provided to complement the supply of the recovery and recycling equipment, at a cost of US \$30,000. The programme will include practical demonstration on recovery and recycling equipment and good service practices in the handling of refrigerants during installation, servicing and dismantling of refrigeration systems. The programme will benefit from previous training workshops held by UNIDO.
4. To ensure the success of the programme, the Ozone Unit will monitor operations to ensure that the most effective use of the recovery and recycling equipment is attained. The title of ownership of the equipment will be kept by the Ozone Unit throughout the duration of the project (3 years) and then transferred to the users, subject to final evaluation of the activities carried out by the individual users.

SECRETARIAT'S RECOMMENDATION

1. The Fund Secretariat recommends approval of the project with associated support costs at the funding level shown in the table below:

Project	Project Cost US \$	Support Cost US \$	Implementing Agency
CFC recovery, recycling and training in refrigeration	165,170	21,472	UNIDO