



**United Nations
Environment
Programme**



Distr.
LIMITED

UNEP/OzL.Pro/ExCom/19/44
9 April 1996

ORIGINAL: ENGLISH

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

Nineteenth Meeting
Montreal, 8-10 May 1996

COUNTRY PROGRAMME: BAHAMAS

This document consists of:

- Country Programme Evaluation Sheet (prepared by the Fund Secretariat)
- Comments and Recommendations of the Fund Secretariat
- Transmittal Letter from the Government of Bahamas
- Country Programme Cover Sheet
- Country Programme (Executive Summary)

BAHAMAS COUNTRY PROGRAMME EVALUATION SHEET

Status of ratification of the Vienna Convention and the Montreal Protocol

	Signature	Ratification	Entry into force
Vienna Convention (1985)		01/Apr/93	30/Jun/93
Montreal Protocol (1987)		04/May/93	02/Aug/93
London Amendment (1990)		04/May/93	02/Aug/93
Copenhagen Amendment (1992)		04/May/93	04/Jun/94

Production of controlled substances: No controlled substances produced

Consumption of controlled substances (1994) 70.1 metric tonnes
68.1 weighed tonnes (ODP)

(tonnes)	CFC-11	CFC-12	CFC-113	CFC-114	CFC-115	TOTAL	Halon1211	Halon1301	TOTAL	CTC	MCF	TOTAL	Me-Br
ODS	5.9	59.2			5.0	70.1							
ODP	5.9	59.2			3.0	68.1							

Distribution of ODP by substance: CFC 100.0% Halon CTC and MCF

Distribution of ODP by sector: Aerosol Foam Halon Refrigeration Solvent Other

Consumption (ODP tonnes): 68.1

Percent of total: 100.0%

Country Programme

Duration of country programme: 12 years (1995-2007)

ODS phase out target: Complete phase out by 2007

Phase out priority area: Refrigeration servicing sector

Cost of activities in country programme: \$247,000

Strategy:

In collaboration with private sector and NGOs, the Government is proposing to establish fiscal and regulatory measures to meet ODS phase out objectives, provide information to consumers of the commitment to phasing out ODS, and provide services needed to facilitate the transition to and use of non-ODS alternatives.

COMMENTS AND RECOMMENDATIONS OF THE FUND SECRETARIAT

COMMENTS

1. The Country Programme conforms to the format of the approved guidelines. The total ODS consumption in the country is estimated at 68 tonnes, mainly CFC-11 and CFC-12. CFCs are exclusively used for servicing domestic refrigerators and freezers, commercial refrigerators and mobile air conditioners.
2. The country programme includes a project for the establishment of an Ozone Unit within the Ministry of Health and Environment (institutional strengthening). The Government of the Bahamas is requesting financial support for the implementation of this project totaling US \$50,000.
3. The institutional strengthening project has been developed following the approach proposed by the Fund Secretariat for low volume ODS-consuming countries, where ODS consumption is mainly for servicing refrigeration and air conditioning equipment (UNEP/OzL.Pro/ExCom/18/9 Annex I). The main responsibilities of the Ozone Unit would include: organizing training workshop for service technicians, following-up the training activities, supervising the implementation of refrigerant recovery and recycling programme, and facilitating the government's data reporting obligations under the Montreal Protocol.
4. A preliminary project proposal related to CFC recovery and recycling and a training programme in good refrigeration practices for service technicians is also included in the Country Programme.

RECOMMENDATIONS

1. The Fund Secretariat recommends as follows:
2. To approve the Bahamas Country Programme. Approval of the Country Programme does not denote approval of the projects identified therein or their funding levels.
3. To request the Government of the Bahamas to present annually information to the Executive Committee on progress being made in the implementation of the country programme, in accordance with the decision of the Executive Committee on implementation of country programmes (UNEP/OzL.Pro/ExCom/10/40, para 135). Using the approved format, the initial report, covering the period 15 May 1996 to 31 December 1996, should be submitted to the Fund Secretariat no later than 31 March 1997.
4. To request UNDP to assist the Government of Bahamas in the preparation of the refrigerant recovery and recycling programme identified in the country programme.
5. To approve the amount of US \$50,000 for institutional strengthening and US \$6,500 support cost for UNEP, and to request UNEP not to disburse any funds for this activity until after the preparation of a refrigerant recovery and recycling programme and its approval by the Executive Committee.



THE BAHAMAS ENVIRONMENT, SCIENCE AND TECHNOLOGY COMMISSION

OFFICE OF THE PRIME MINISTER

REF. OPM/BEST/02/1

7 March 1996

The Chief Officer
Secretariat of the Multilateral Fund
for the Implementation of the Montreal Protocol
1800 McGill College
27th Floor
Montreal, Canada HJA 3J6

Dear Sir,

I have the honour to submit herewith the Country Programme of the Commonwealth of The Bahamas for the consideration and approval of the Multilateral Fund for the Implementation of the Montreal Protocol.

The Commonwealth of The Bahamas adhered to the Protocol and became a Party on 4 May 1993. It is classified as operating under Paragraph 1 of Article 5 of the Montreal Protocol.

I would like to place on record the appreciation of the Government of the Commonwealth of The Bahamas for the assistance extended to it through the UNEP IE OzonAction Programme for the preparation of the Country Programme which started in August 1994. I am pleased to say that The Bahamas Government is committed to the implementation of actions contained in the Country Programme.

I further assert that it is the Government's intention to monitor compliance with the Protocol. If necessary, further and different action from those specified in the Country Programme will be updated and submitted to the Executive Committee of the Multilateral Fund.

It is hoped that the Executive Committee will approve our requests for assistance, all of which relate to institutional strengthening.

Please accept, Sir, the assurances of my highest consideration.

Yours sincerely,

Catherine M. Benjamin
(for) Permanent Secretary

COUNTRY PROGRAMME COVER SHEET

COUNTRY COMMONWEALTH OF THE BAHAMAS

DATE RECEIVED _____

PERIOD COVERED BY
COUNTRY PROGRAMME 1995-2007

1. PHASE OUT SCHEDULE

SUBSTANCES	CURRENT CONSUMPTION TONNES X ODP IN 1994	PLANNED TOTAL CONSUMPTION UNTIL PHASE OUT (TONNES X ODP)	PLANNED YEAR OF PHASE OUT
CFC-11	5.92	40	2007
CFC-12	59.2	380	2007
CFC-115	2.96	20	2007
	68.11	440	

2. GOVERNMENT ACTION PLAN

YEAR	DESCRIPTION OF ACTION	SECTOR	INTENDED EFFECT
1996,1997	PUBLIC AWARENESS PROGRAMMES		REDUCTION IN ODS WASTE
1996	ESTABLISHMENT OF OZONE UNIT		INSTITUTIONAL STRENGTHENING REDUCED ODS CONSUMPTION
1996	SETTING OF IMPORT QUOTAS		REDUCED ODS CONSUMPTION
1996	SETTING LEGISLATIVE FRAMEWORK FOR PHASE OUT		REDUCED ODS CONSUMPTION
1997	PROHIBITION OF NEW EQUIPMENT/INSTALLATIONS USING ODS		REDUCED ODS CONSUMPTION
1996	IMPORT CONCESSIONS & TAX INCENTIVES		REDUCED ODS CONSUMPTION
2007	TOTAL BAN ON ODS		REDUCED ODS CONSUMPTION

3. PROJECT SUMMARY

PROJECT NUMBER	YEARS	TYPE OF PROJECT	PROJECT DESCRIPTION	PROJECT COST
1	1996-1999	INSTITUTIONAL AND TRAINING		
1 - A		INSTITUTIONAL	INSTITUTIONAL STRENGTHENING	US \$ 50,000
1 - B		TRAINING AND INFORMATION TRANSFER	CFC RECOVERY, RECYCLING, TRAINING	US \$ 170,000*
TOTAL				US \$ 50,000 + US \$ 170,000*
				* INDICATIVE

4. COSTS

COST OF ACTIVITIES AND PROJECTS IN COUNTRY PROGRAMME	US \$ 220,000
ESTIMATED COST OF COMPLETE PHASE OUT	US \$ 935,680
ESTIMATED COST EFFECTIVENESS	

EXECUTIVE SUMMARY

S.1 INTRODUCTION

The Bahamas acceded to the Vienna Convention for the Protection of the Ozone Layer and The Montreal Protocol on Substances that Deplete the Ozone Layer on the 4th May 1993. In fulfillment of its obligations under The Montreal Protocol, The Bahamas has executed a National Survey as the basis for completion of its Country Programme for the phasing out of Ozone Depleting Substances (ODSs).

S.2 PRODUCTION OF ODSs

No producers of ODSs were identified in The Bahamas.

S.3 IMPORTATION OF ODSs

Of the twenty substances listed in Annexes A and B of The Montreal Protocol and its London Amendment, three were identified as being imported by The Bahamas in any significant quantity during the period 1986 to 1994. These substances were:

CFC-11, CFC-12, and CFC-115.

The Bahamas' consumption in metric Tonnes and ODP Tonnes are presented in Table A. In 1994, the base year, the total ODP consumption was 68.11 Tonnes.

The estimated population for 1994 stands at 273,137, which translates into a per capita consumption of 0.249 kg. Thus, The Bahamas operates under paragraph I of Article 5 of The Montreal Protocol.

S.4 USES OF ODSs

CFC-12 is the main product used within refrigerators and automotive air-conditioning systems in The Bahamas, whereas R-502 (containing CFC-115) is employed in cold chambers, blast-freezing systems and for the topping up of chillers. Some hotels were found to be utilizing CFC-11 in their centralized air-conditioning systems. However, these hotels are foreign owned.

S.5 PHASE OUT STRATEGY

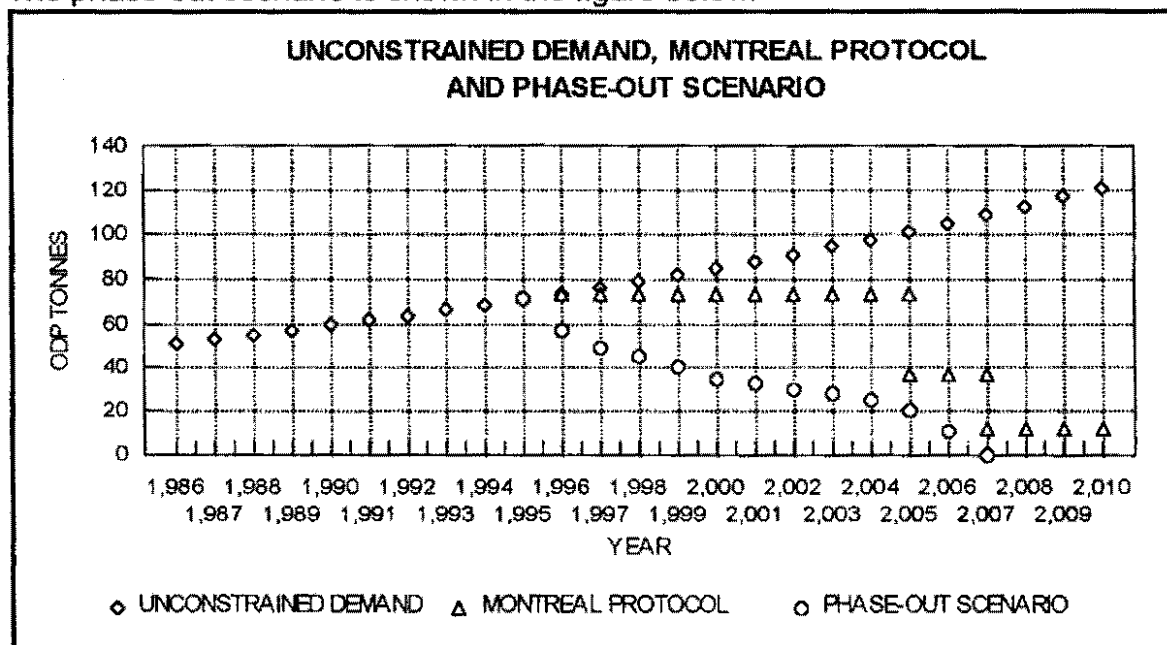
The Government of The Bahamas is committed to the phase out of ODSs within the deadlines established in the Montreal Protocol and according to programmes that are technologically and economically viable. This goal will be achieved using a mixture of strategies, in collaboration with the private sector and non-governmental organizations and with support from the Multilateral Fund.

The main components of the strategy are:

- informing the local consumers of the commitment to phasing out ODS of appropriate alternative substances and technologies;
- taking appropriate fiscal and regulatory measures in meeting the phase out objectives; and
- establishing the supporting environment of services to facilitate the transition to and use of alternatives, as well as the overall coordination of ODS phase out activities.

The policy framework within which the action plan will be effected will be a mixture of education, persuasion, incentives and regulation.

The phase-out scenario is shown in the figure below.



S.6 ACTION PLAN

Based on the Government strategy, the Action Plan described in Table B was established. This plan comprises 10 concrete actions. The Action Plan is supported by one (1) project composed of two (2) sub-projects. The project is described in Table C.

A total of US \$ 220,000 is being requested from the Multilateral Fund to carry out the action plan and the project composed of two sub-projects.

S.7 CONCLUDING REMARKS

A high level of awareness about The Montreal Protocol and the phasing out of ODSs was observed among both importers and users. Companies engaged in the direct importation of bulk ODSs or ODS-containing products, have all given a commitment towards supporting Government's policies and strategies for the systematic reduction of imported quantities, while promoting the usage of the more environmentally friendly alternatives. Importers of vehicles have reported that all future new orders will arrive charged with the substitute refrigerant HFC-134a. Some importers of domestic refrigerators have already started to import HFC-134a units. It is reported that as of January 1996, most domestic refrigerators will be equipped with HFC-134a systems. Further, some business persons have already invested in alternative technologies and/or recovery equipment.

The Bahamas is committed to making its contribution towards this global initiative to prevent further destruction of the ozone layer. Proposals have been received for consideration as projects within the framework of The Montreal Protocol; and strategies are being further formulated at the Governmental level to expedite the elimination of ODSs.

TABLE A
CONSUMPTION OF ODS IN ODP TONNES FOR 1986-1994

Substance	1986	1987	1988	1989	1990	1991	1992	1993	1994
CFC-11	4.44	4.61	4.77	4.95	5.14	5.33	5.52	5.72	5.92
CFC-12	44.45	46.06	47.74	49.48	51.40	53.28	55.20	57.18	59.22
CFC-115	2.22	2.30	2.39	2.47	2.57	2.66	2.76	2.86	2.96
Total	51.11	52.97	54.90	56.91	59.12	61.27	63.48	65.76	68.11

TABLE B ACTION PLAN

ACTION NO.	DESCRIPTION	START DATE	IMPLEMENTING BODY
1	Public awareness & education campaigns, in conjunction with Non-Governmental Organizations	Jan 1996	Ministry of Health and Environment
2	Establishment of Ozone Unit & Steering Committee	July 1996	Ministry Health and Environment
3	Training of Refrigeration/Air-condition service technicians as well as the implementation of a national programme for recovery and recycling of refrigerants	Sep. 1996	OZONE UNIT
4	Follow up on activities in the Refrigeration Sector with emphasis on Hotel/Tourism sub-sector	Mar 1996	OZONE UNIT
5	Setting of import quotas & issuing of licenses	July 1996	OZONE UNIT in collaboration with the Bahamas Customs Department
6	Legislative framework for ODS phase-out	Sep. 1996	OZONE UNIT in collaboration with the Ministry of Agriculture, Trade and Industry and the Ministry of Finance
7	Ban on new installations using ODSS	1996	OZONE UNIT in collaboration with the Ministry of Agriculture, Trade and Industry and the Ministry of Finance
8	Ban on Equipment & Appliances containing ODSS	1996	OZONE UNIT in collaboration with the Ministry of Agriculture, Trade and Industry and the Ministry of Finance
9	Import concessions & Tax incentives to promote use of substitutes & alternative technologies	1996	Ministry of Agriculture, Trade and Industry and the Ministry of Finance
10	TOTAL BAN ON USE OF CFC	2007	Ministry of Agriculture, Trade and Industry and the Ministry of Finance

TABLE C PROJECT SUMMARY

The following is the only project submitted by the Government of the Bahamas. It is composed of two parts as described below

PROJECT PART	PROJECT	REQUESTED FROM THE MLF US \$	IMPLEMENTING AGENCY
PART 1 - A	Institutional Strengthening for the Phase-out of Substances Under the Montreal Protocol	50,000	UNEP
PART 1 - B	CFC Recovery, Recycling and Training in Refrigeration	170,000 *	UNDP
TOTAL		220,000	
		* INDICATIVE	

PROJECT PROPOSAL:	PROJECT NUMBER: 1
PROJECT TITLE:	1 - A INSTITUTIONAL STRENGTHENING FOR PHASE- OF OZONE DEPLETING SUBSTANCES UNDER MONTREAL PROTOCOL, AND 1 - B CFC RECOVERY, RECYCLING AND TRAINING REFRIGERATION
SECTORS COVERED:	ALL
ODS CONSUMPTION IN SECTOR:	68.11 ODP TONNES OF CFC-12 (1994)
PROJECT DURATION:	THREE (3) YEARS
TOTAL INCREMENTAL COST:	US \$ 50,000 INSTITUTIONAL STRENGTHENING PART, AND US \$ 170,000 AN INDICATIVE COST FOR CFC RECOV AND RECYCLING
IMPLEMENTING AGENCIES:	UNEP AND UNDP
NATIONAL IMPLEMENTING AGENCY:	MINISTRY OF HEALTH AND THE ENVIRONMENT, OZ UNIT

PROJECT DESCRIPTION

The archipelago of the Bahamas is formed of 29 islands which are spread over some 850 km by 300 km. The archipelago is some 80 km from the coast of Florida. The main industry in this island state is Tourism. In 1994 some 3.4 Million tourists visited the country.

An Environmental Monitoring and Risk Assessment Division was set up in the Ministry of Health and the Environment with responsibility for all matters relating to environmental management including ozone policy development. A team, under the Chief Public Analyst in the Ministry was established to ensure compliance with the Vienna Convention for the Protection of the Ozone Layer and the Montreal Protocol on Substances that Deplete the Ozone Layer.

For the successful implementation of the Country Programme, a focused approach will be necessary to achieve the following:

- a) To formulate, implement and monitor Refrigeration Projects and projects in other sectors, if and when these are approved at a later date;
- b) To monitor the ongoing developments in the efforts to protect the Ozone Layer;
- c) To assist in the preparation of budgets and advise on the release of funds from the Multilateral Fund;

-
- d) To coordinate public awareness programmes;
 - e) To coordinate requirements for the identification and quantification of controlled substances at the point of entry
 - f) To assist training bodies in setting up technical training programmes;
 - g) To coordinate technology monitoring activities;
 - h) To report annually to the Ozone Secretariat, UNEP in Nairobi-Kenya on the ODS consumption in the country according to Article 7 of the Montreal Protocol; and
 - i) To report annually to the Executive Committee of the Multilateral Fund on the progress in the implementation of the Country Programme.

An Ozone Unit will be established in the Environmental Monitoring and Risk Assessment Division of the Ministry of Health and the Environment with the responsibilities listed above. The Institutional Strengthening part of the project will be controlled by a person knowledgeable in Refrigeration whose duty, among those described above, will be to control and monitor the recovery and recycling of refrigerants part of the project. Part of the costs, as described in the table below, associated with the establishment of this Sub-Unit, which is essential to the successful phase out of ODS are incremental costs to be borne by the Multilateral Fund, the remaining costs, also shown below, will be borne by the Government.

PROJECT TIME FRAME

The project commencement date is expected to be July 1996 and the completion date July 1999.

IMPACT

This project will facilitate the early phase-out of controlled substances in The BAHAMAS.

PROJECT BUDGET
PART 1 - A
INSTITUTIONAL STRENGTHENING

	1996 US \$	1997 US \$	1998 US \$	TOTAL US \$	By the Govern- ment	Requeste d from the MLF
LOCAL OFFICE: Office space, local transportation between the islands, local per diem, etc.	20,000	20,000	20,000	60,000	60,000	
EQUIPMENT: Including microprocessor, printer, modem, software, power regulator, photocopying machine, fax..	6,000			6,000		6,000
STAFFING: Project Coordinator - refrigeration expert	8,000	8,000	8,000	24,000		24,000
OPERATING COSTS: Telecommunications charges, service charges, office supplies, equipment maintenance	5,000	5,000	5,000	15,000		15,000
PUBLIC AWARENESS: Broadcasting, printed media campaigns	4,000	4,000	4,000	12,000	7,000	5,000
SUB TOTAL	43,000	37,000	37,000	117,000	67,000	50,000
CONTINGENCIES	3,000	2,000	2,000	7,000	7,000	
BY THE GOVERNMENT OF THE BAHAMAS	25,000	24,500	24,500	24,500	74,000	
REQUESTED FROM THE MULTILATERAL FUND	21,000	14,500	14,500	14,500		50,000

PART 1 - B

**CFC RECOVERY, RECYCLING AND TRAINING IN
REFRIGERATION**

INDICATIVE BUDGET : US \$ 170,000