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EXECUTIVE COMMITTEE OF
THE MULTILATERAL FUND FOR THE
IMPLEMENTATION OF THE MONTREAL PROTOCOL
Forty-second Meeting
Montreal, 29 March - 2 April 2004

PROJECT PROPOSALS: NIGER

This document consists of the comments and recommendations of the Fund Secretariat on the following project proposals:

Refrigeration:

- Implementation of the RMP update: training for customs technicians UNEP
- Implementation of the RMP update: train the trainer programme for refrigeration service technicians UNEP
- Implementation of the RMP update: monitoring of the activities UNEP

**PROJECT EVALUATION SHEET
NIGER**

SECTOR: Refrigeration ODS use in sector (2002): 26.6 ODP tonnes

Sub-sector cost-effectiveness thresholds: n/a

Project Titles:

- (a) Implementation of the RMP update: training for customs technicians
- (b) Implementation of the RMP update: train the trainer programme for refrigeration service technicians
- (c) Implementation of the RMP update: monitoring of the activities

Project Data	Refrigeration management plan update		
	(a)	(b)	(c)
Enterprise consumption (ODP tonnes)			
Project impact (ODP tonnes)			
Project duration (months)	12	18	24
Initial amount requested (US \$)	25,000	55,747	23,000
Final project cost (US \$):			
Incremental capital cost (a)	25,000	55,747	23,000
Contingency cost (b)			
Incremental operating cost (c)			
Total project cost (a+b+c)	25,000	55,747	23,000
Local ownership (%)	100%	100%	100%
Export component (%)	0%	0%	0%
Amount requested (US \$)	25,000	55,747	23,000
Cost effectiveness (US \$/kg.)			
Counterpart funding confirmed?			
National coordinating agency	National Ozone Unit (BNO)		
Implementing agency	UNEP		

Secretariat's Recommendations			
Amount recommended (US \$)	25,000	55,747	23,000
Project impact (ODP tonnes)			
Cost effectiveness (US \$/kg)			
Implementing agency support cost (US \$)	3,250	7,247	2,990
Total cost to Multilateral Fund (US \$)	28,250	62,994	25,990

PROJECT DESCRIPTION

Servicing sector

1. In 2002, the total CFC consumption used for servicing refrigeration equipment in Niger was estimated at 26.6 ODP tonnes. The CFC baseline for Niger is 59.0 ODP tonnes.
2. There are over 620 refrigeration service technicians in Niger working in 290 workshops. These workshops carry out maintenance and repair of domestic, commercial and industrial refrigeration equipment and air conditioning units. Most service technicians work with repair workshops which are registered by the Chamber of Commerce and Industry and some are employees of large companies.
3. The main causes for the repair of refrigeration systems in Niger are fluctuations in power supply, compressor failure and failures in refrigerant circuits caused by mismanagement of the equipment. There has been a tendency by some technician to service HFC-134a based equipment with CFC-12; however, this practice has been reduced following the training provided to technicians.
4. The current prices of refrigerants per kg are: US \$11.00 for CFC-11; US \$6.50 for CFC-12, US \$10.00 for HFC-134a and US \$7.00 for HCFC-22.

ODS Regulations

5. The Government of Niger has introduced inter-ministerial regulations to control ODS consumption. An ODS licensing system is in operation.

Refrigerant Management Plan (RMP)

6. The Niger RMP was approved at the 27th Meeting of the Executive Committee. The project was implemented with the assistance of UNEP (training programmes) and UNDP (recovery/recycling programme). 130 selected customs officers attended training courses. Thirty elected technicians have attended a refrigeration training programme; through them, 200 refrigeration service technicians were trained in good service and maintenance practices, and the correct handling of non-CFC refrigerants. A recovery and recycling network comprising 19 recovery units and 3 recycling centres for servicing commercial and industrial refrigeration equipment has been established.

RMP Update

7. The RMP update has been submitted by UNEP at a total requested cost of US \$103,747 in accordance with the provisos of Decision 31/48 and subsequent decisions on RMP proposals, including the level of funding. It includes proposals for additional training for custom officers to enhance the monitoring of ODS and ODS-based equipment; additional training for service technicians in conservation of refrigeration equipment and adequate maintenance and installation of refrigeration systems; and support for a monitoring unit.

8. The co-ordination and monitoring of the activities proposed in the RMP update will be undertaken by the Ozone Unit and the Niger Ozone Committee. The total cost of the RMP update is US \$104,000.

9. The Niger RMP project was submitted with a letter from the Government of Niger stating the Government's commitment to achieve, without further request for funding, at least the 50 per cent reduction in consumption of CFC by 2005 and the 85 per cent reduction by 2007.

SECRETARIAT'S COMMENTS AND RECOMMENDATIONS

COMMENTS

10. The Secretariat has noted that the 2002 CFC consumption in Niger is less than 26.6 ODP tonnes, which is some 32.4 ODP tonnes below Niger's 2005 compliance level.

11. Through the original RMP project, a total of 130 customs officers and 230 service technicians have been trained, and a network of recovery/recycling machines has been established. Based on the results so far achieved, the Secretariat suggested that UNDP (as the implementing agency of the recovery/recycling programme) and UNEP examine the merits of combining all the activities proposed (for a total of US \$104,000) under one overall budget dedicated to the provision of a mix of training and equipment/service tools to be selected on the basis of the needs identified over the project implementation time-frame. UNEP indicated, however, that the Government of Niger has identified the training programmes proposed in the RMP update as a priority. The only set of recovery and recycling equipment needed for training purposes and, later for a recycling centre, has been included in the training programme for service technicians.

RECOMMENDATIONS

12. The Fund Secretariat recommends blanket approval of the projects with associated support costs at the funding level shown in the table below on the understanding that:

	Project Titles	Project Funding (US \$)	Support Cost (US \$)	Implementing Agency
(a)	Implementation of the RMP update: training for customs technicians	25,000	3,250	UNEP
(b)	Implementation of the RMP update: train the trainer programme for refrigeration service technicians	55,747	7,247	UNEP
(c)	Implementation of the RMP update: monitoring of the activities	23,000	2,990	UNEP
