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EXECUTIVE COMMITTEE OF  
THE MULTILATERAL FUND FOR THE  
IMPLEMENTATION OF THE MONTREAL PROTOCOL  
Seventy-sixth Meeting  
Montreal, 9-13 May 2016

**PROJECT PROPOSAL: SIERRA LEONE**

This document consists of the comments and recommendation of the Secretariat on the following project proposal:

Phase-out

- HCFC phase-out management plan (stage I, third tranche) UNEP and UNIDO

**PROJECT EVALUATION SHEET – MULTI-YEAR PROJECTS**

**Sierra Leone**

(I) PROJECT TITLE	AGENCY	MEETING APPROVED	CONTROL MEASURE
HCFC phase-out plan (Stage I)	UNEP (lead), UNIDO	65 <sup>th</sup>	35 per cent by 2020

<b>(II) LATEST ARTICLE 7 DATA (Annex C Group I)</b>	Year: 2014	1.47 (ODP tonnes)
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(III) LATEST COUNTRY PROGRAMME SECTORAL DATA (ODP tonnes)								Year: 2014	
Chemical	Aerosol	Foam	Fire fighting	Refrigeration		Solvent	Process agent	Lab use	Total sector consumption
				Manufacturing	Servicing				
HCFC-22					1.5				1.5

(IV) CONSUMPTION DATA (ODP tonnes)			
2009 - 2010 baseline:	1.7	Starting point for sustained aggregate reductions:	1.7
CONSUMPTION ELIGIBLE FOR FUNDING (ODP tonnes)			
Already approved:	0.6	Remaining:	1.1

(V) BUSINESS PLAN		2014	2015	2016	2017	2018	2019	2020	Total
UNEP	ODS phase-out (ODP tonnes)	0	0	0.1	0	0.1	0	0.1	0.2
	Funding (US \$)	0	0	22,600	0	23,730	0	23,730	70,060
UNIDO	ODS phase-out (ODP tonnes)	0	0	0.1	0	0	0	0	0.1
	Funding (US \$)	0	0	54,500	0	0	0	0	54,500

(VI) PROJECT DATA			2011	2012	2013	2014-2015	2016	2017	2018	2019	2020	Total	
Montreal Protocol consumption limits			n/a	n/a	1.7	1.7	1.5	1.5	1.5	1.5	1.1	n/a	
Maximum allowable consumption (ODP tonnes)			n/a	n/a	1.7	1.7	1.5	1.5	1.5	1.5	1.1	n/a	
Agreed funding (US\$)	UNEP	Project costs	25,000	0	23,000	0	20,000	0	21,000	0	21,000	110,000	
		Support costs	3,250	0	2,990	0	2,600	0	2,730	0	2,730	14,300	
	UNIDO	Project costs	50,000	0	0	0	50,000	0	0	0	0	0	100,000
		Support costs	4,500	0	0	0	4,500	0	0	0	0	0	9,000
Funds approved by ExCom (US\$)	Project costs		75,000	0	23,000	0	0	0	0	0	0	98,000	
	Support costs		7,750	0	2,990	0	0	0	0	0	0	10,740	
Total funds requested for approval at this meeting (US\$)	Project costs		0	0	0	0	70,000	0	0	0	0	70,000	
	Support costs		0	0	0	0	7,100	0	0	0	0	7,100	

<b>Secretariat's recommendation:</b>	Blanket approval
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## PROJECT DESCRIPTION

1. On behalf of the Government of Sierra Leone, UNEP as the lead implementing agency, has submitted to the 76<sup>th</sup> meeting a request for funding for the third tranche of stage I of the HCFC phase-out management plan (HPMP), at a total cost of US \$77,100, consisting of US \$20,000, plus agency support costs of US \$2,600 for UNEP, and US \$50,000, plus agency support costs of US \$4,500 for UNIDO. The submission includes a progress report on the implementation of the second tranche and the tranche implementation plan for 2016 to 2018.

### Report on HCFC consumption

#### *HCFC consumption*

2. The Government of Sierra Leone reported a consumption of 1.47 ODP tonnes of HCFC in 2014 and estimated a consumption of 0.83 ODP tonnes for 2015. The 2011-2015 HCFC consumption is shown in Table 1.

**Table 1. HCFC consumption in Sierra Leone (2011-2014 Article 7 data, 2015 estimate)**

HCFC-22	2011	2012	2013	2014	2015*	Baseline
<b>Metric tonnes</b>	34.00	47.00	15.20	26.70	15.02	30.37
<b>ODP tonnes</b>	1.87	2.59	0.84	1.47	0.83	1.70

\*Estimate.

3. The estimated 2015 HCFC consumption is 49 per cent below the baseline consumption of 1.70 ODP tonnes. The high import in 2012 was attributed to stockpiles in preparation for the freeze in HCFC consumption from 2013, while the high import in 2014 was due to technical issues with the system that collects and records data and changes in responsibility within the Customs Department.

#### *Country programme (CP) implementation report*

4. The Government of Sierra Leone reported HCFC sector consumption data under the 2014 CP implementation report which is consistent with the data reported under Article 7. The 2015 CP report will be submitted by 1 May 2016.

### Progress report on the implementation of the second tranche of the HPMP

#### *Legal framework*

5. The Government established a HCFC quota and licensing system in 2010. The national ozone unit (NOU) and the National Revenue Authority (Customs Department) have collectively developed a database where all importers are registered. At the beginning of each year, all ODS importers must submit the type and quantity of ODS to be imported. Accordingly, the NOU issues quotas and licenses each year. The importer must receive clearance from the NOU before the Customs Department can release the shipment to them.

6. Three training sessions were conducted in resulting in 41 customs and law enforcement officers trained on the monitoring and enforcement of ODS policy and regulations. In addition, 19 customs and enforcement officers were trained on compliance, enforcement, and techniques in combatting illegal trade. Five refrigerant identifiers were procured and distributed to key entry points into the country. Consequently, a decrease in illegal trade of ODS and better control over HCFC imports has been noted.

*Refrigeration servicing sector*

7. Preparations for technician certification are already underway. A train-the-trainer workshop was conducted in 2013 to train 22 servicing technicians from all regions of Sierra Leone. Four workshops on best refrigeration and air-conditioner (RAC) servicing practices were conducted for 140 technicians.

8. A programme to strengthen regional retrofitting centers and provide incentives for commercial and industrial end-users is being implemented. Equipment (including recovery machines, refrigerant identifiers, brazing machines and hydrocarbon (HC) charging stations and manifold gauges) has been procured and distributed to the retrofit centers. Awareness campaigns to inform technicians of the availability of retrofitting equipment have been completed.

*Project implementation and monitoring unit (PMU)*

9. The institutions involved in the PMU for Sierra Leone are the NOU, the National Ozone Committee, the Association of Refrigeration Technicians and Engineers, the Customs Department, and the Ministry of Trade. The NOU recruited a consultant to provide assistance in project coordination, implementation and monitoring of activities.

Level of fund disbursement

10. As of March 2016, of the US \$98,000 so far approved, US \$87,620 had been disbursed (US \$40,000 for UNEP and US \$47,620 for UNIDO). The balance of US \$10,380 will be disbursed in 2016 (Table 2).

**Table 2. Financial report of stage I of the HPMP for Sierra Leone (US \$)**

Agency	First tranche		Second tranche		Total approved	
	Approved	Disbursed	Approved	Disbursed	Approved	Disbursed
UNEP	25,000	25,000	23,000	15,000	48,000	40,000
UNIDO	50,000	47,620	0	0	50,000	47,620
<b>Total</b>	<b>75,000</b>	<b>72,620</b>	<b>23,000</b>	<b>15,000</b>	<b>98,000</b>	<b>87,620</b>
<b>Disbursement rate (%)</b>	97		65		89	

Implementation plan for the third tranche of the HPMP

11. The following activities will be implemented:

- (a) Training for 30 customs officers through one workshop and strengthening of customs training schools curriculum; trainings will include ozone modules and aim to reduce illegal trade of ODS (UNEP) (US \$5,000);
- (b) Training for 40 servicing technicians on good practices, strengthening of the refrigeration associations and strengthening of the curriculum at two RAC technical institutes (UNEP) (US \$10,000);
- (c) Procuring additional tools for the retrofitting centres, training on the use of tools provided, and providing incentives to convert to available non-HCFC alternatives (UNIDO) (US \$50,000); and
- (d) Project coordination and management (US \$5,000) (UNEP).

## SECRETARIAT'S COMMENTS AND RECOMMENDATION

### COMMENTS

#### Progress report on the implementation of the second tranche of the HPMP

##### *Legal framework*

12. The increase in consumption of HCFC-22 in 2014 was associated with technical issues with the system that collects and records data for that year. The Government is aware that some difficulties are faced by the Customs Department and has prioritized the training of staff on ozone related issues and ensure proper data collection and recording. The NOU is also collecting import data directly from importers, which would provide a comparison on the licenses issued with the actual imports into the country.

13. The Government has already issued the HCFC import quotas for 2016 at 1.37 ODP tonnes.

##### *Refrigeration servicing sector*

14. With regard to the sustainability of training programmes for customs officers and servicing technicians, UNEP explained that the NOU has established a memorandum of understanding (MOU) with the National Revenue Authority, to include ozone modules on the training curricula for customs officers. The training curriculum on good refrigeration practices is being revised by the training institutes to include ozone and other environmental management topics (i.e., climate change). The third tranche will include implementation of new customs curricula and the new technical institution training curricula.

15. The Secretariat asked whether the country was considering retrofitting HCFC-based equipment with flammable refrigerants, and how decisions on retrofit<sup>1</sup> had been taken into account in these activities noting that training of technicians included strengthening capacity for safe handling of HC refrigerants. UNEP explained that the training sessions include safe handling of HC to avoid any consequences of unqualified service technicians using HC technology in the future, and UNEP noted that the country is fully aware of the relevant decisions of the Executive Committee on retrofit<sup>2</sup> when these actions are implemented.

#### Conclusion

16. The Secretariat noted that Sierra Leone continues to be in compliance with the HCFC consumption targets, has an operational licensing and quota system, and continues to progress in the implementation of the activities approved under stage I. Difficulties faced by the Customs Department have been resolved and activities completed in the refrigeration servicing sector have contributed to improving the capacity of service technicians to implement better servicing practices.

### RECOMMENDATION

17. The Fund Secretariat recommends that the Executive Committee takes note of the progress report on the implementation of the second tranche of stage I of the HCFC phase-out management plan (HPMP) for Sierra Leone; and further recommends blanket approval of the third tranche of stage I of the HPMP for Sierra Leone, and the corresponding 2016-2018 tranche implementation plan, at the funding levels shown in the table below, on the understanding that if the country were to decide to proceed with retrofits and associated servicing to flammable and toxic refrigerants in refrigeration and air-conditioning

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<sup>1</sup> Decisions 72/17 and 73/34.

<sup>2</sup> Decisions 72/17 and 73/34.

equipment originally designed for non-flammable substances, it would do so assuming all associated responsibilities and risks and only in accordance with the relevant standards and protocols:

	<b>Project title</b>	<b>Project funding (US \$)</b>	<b>Support cost (US \$)</b>	<b>Implementing agency</b>
(a)	HCFC phase-out management plan (stage I, third tranche)	20,000	2,600	UNEP
(b)	HCFC phase-out management plan (stage I, third tranche)	50,000	4,500	UNIDO

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