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EXECUTIVE COMMITTEE OF THE MULTILATERAL FUND FOR THE IMPLEMENTATION OF THE MONTREAL PROTOCOL Twenty-seventh Meeting Montreal, 24-26 March 1999

Addendum

PROJECT PROPOSALS: ARGENTINA

The attached appendix should be included after page 4 in document 27/21.

The appendix provides the justification for choice of HCFC-141b technology in Arneg Raffo.

Appendix 1

ARNEG RAFFO

JUSTIFICATION FOR CHOICE OF HCFC-141b TECHNOLOGY

1. The enterprise has been informed about available technologies for substituting CFC-11 for its rigid foam production.

2. The options available to the enterprise are Water, n-Pentane and HCFC-141b. Estimated project costs for the various options are shown below. (For details, see Table 1).

•	Expected project costs of HCFC-141b	US\$	701,000
٠	Expected project costs of water-blown	US\$	1,160,000
٠	Expected project costs of n-pentane	US\$	1,530,000

3. Arneg's parent company has performed extensive trials in Italy on the different alternatives. It ruled out the water-blown option based on performance and n-pentane based on cost (the new dispenser would also have to be replaced), performance and safety considerations.

4. The enterprise has been informed that HCFC-141b is a transitional substitute and will be phased out in the future. It has also been informed that no additional funding can be requested for the conversion to a non-ODS substitute. Based on the information available and in consultation with its parent company, Arneg Raffo has chosen HCFC-141b as an interim solution in the rigid foam application.

Table 1:The following table summarizes the projected impact of applying various zero-ODPtechnologies with respect to the selected technology (HCFC-141b) in this project:

FOAM SYSTEM	PROJECTED TECHNO-ECONOMIC IMPACT					
	Technical/Commercial Implications Projected Cost Implic			cations		
	Merits	Demerits	Costs	Savings	Impact	
	Readily available	Residual ODP	0	0	0	
HCFC-141b		HP dispensers	440,000	0	440,000	
		IOC	261,000	0	261,000	
	N	ET IMPLICATION ON P	ROJECT COST	ſS	701,000	
Pentane	No ODP	Flammable	0	0	0	
		HP ex-proof dispensers	620,000	0		
		Pre-mixer(s)	85,000	0		
		Ventilation	120,000	0		
		Sensors	60,000	0		
		Electrical upgrading	40,000	0		
		HC storage, connections	65,000	0		
		Procedures	20,000	0		
		Contingencies	100,000	0		
		IOC	50,000	0		
	N	ET IMPLICATION ON P	ROJECT COST	ſS	1,160,000	
Water	No ODP	High diffusion	0	0		
		HP dispenser	440,000	0	440,000	
		IOC	1,090,000	0	1,90,000	
	N	ET IMPLICATION ON P	ROJECT COST	ſS	1,530,000	