



**United Nations
Environment
Programme**

Distr.
GENERAL

UNEP/OzL.Pro/WG.1/11/5
19 December 1994



EP

ORIGINAL: ENGLISH

**OPEN-ENDED WORKING GROUP OF THE
PARTIES TO THE MONTREAL PROTOCOL**

**Eleventh Meeting
Nairobi, 8-12 May 1995**

**MEETING OF THE NEEDS OF ARTICLE 5 PARTIES FOR CONTROLLED
SUBSTANCES DURING THE GRACE AND PHASE-OUT PERIODS - AN
UPDATE**

**(Submitted by the Executive Committee of the Multilateral Fund for the
Implementation of the Montreal Protocol)**

Na.95-8647

040195

Introduction

1. Decision IV/29 requested the Executive Committee to update its report, "Meeting the needs of Article 5 Parties for controlled substances during the grace and phase-out periods", presented to the Fourth Meeting of the Parties to the Montreal Protocol. The decision further requested the Executive Committee to submit the Update through the Ozone Secretariat to the Seventh Meeting of the Parties to the Montreal Protocol (UNEP/OzL.Pro.4/15, page 27, decision IV/29, para. 2).
2. The purpose of the Update is to present the most current global information on ozone depleting substance (ODS) consumption and production, assess potential shortfalls, and identify means of meeting potential shortfalls.
3. The Update presents assumptions used in the analysis followed by a discussion of ODS demand and supply. The demand for controlled substances in Article 5 countries includes the methodology for estimating consumption and data on global constrained and unconstrained demand. The supply of controlled substances during the phase-out and grace periods refers to production in Article 5 and non-Article 5 countries and recycling/recovery.
4. A summary of the results of the analysis is presented in Tables 1 and 2 which is followed by a discussion of the findings for each group of controlled substances.

Assumptions

5. For the purpose of this study, ozone depleting substance consumption and production is presented in metric tonnes instead of ozone depleting potential (ODP) as specified in Article 3 of the Protocol. Metric tonnage is used since production capacity is not measured in ODP.
6. Article 5 of the Montreal Protocol as amended by the London Amendment and Adjustment (London) defines the grace period during which a Party operating under paragraph 1 of Article 5 "shall in order to meet its basic domestic needs, be entitled to delay for ten years its compliance with the control measures set out in Article 2A to 2E" (UNEP/OzL.Pro.2/3, Annex II, page 31, Article 5, paragraph 1).
7. The Copenhagen Amendment and Adjustment (Copenhagen) states that "any further amendments to the Adjustments or Amendments adopted at the Second Meeting of the Parties in London, 29 June 1990, shall apply to the Parties operating under [paragraph 1 of Article 5] after the review provided for in paragraph 8 of [Article 5] has taken place and [a decision on the grace period] shall be based on the conclusions of that review," (Copenhagen, UNEP/OzL.Pro.4/15, Annex II, page 40, R. Article 5, paragraph 1). For the purpose of this study, ten years is added to the control measures set out in Article 2A to 2E as under London to analyze the need for controlled substances during the grace period should Copenhagen become applicable to Article 5 countries.

Demand for controlled substances in Article 5 countries

8. Consumption data were derived for the following groups of controlled substances: CFCs, halons, carbon tetrachloride, and methyl chloroform. Consumption and production data were not available for individual CFCs and halons; however, the ratio of CFC-11 to CFC-12 consumption is about 40/60.

9. Consumption data were provided in country programmes and/or as reported in accordance with Article 7 of the Montreal Protocol. Most current data were collected and missing information was derived on the basis of gross domestic product. These data were adjusted to 1993 as a base year and then projected to increase at a rate of 9.4 per cent per year to determine unconstrained demand.

Unconstrained ODS demand in Article 5 countries

10. Unconstrained ODS demand reflects the amount of ODS demand in the absence of the Montreal Protocol. Without the Montreal Protocol, Article 5 countries would consume approximately 8.5 million ODP tonnes from 1995 through 2010 for CFCs, halons, and carbon tetrachloride and through 2015 for methyl chloroform.

ODS consumption in Article 5 countries

11. ODS consumption data reflects constrained ODS demand as a result of the implementation of the control measures of the Protocol.

12. Elimination profiles based on model projects for each ODS user sub-sector were utilized to estimate consumption. Model projects were devised based on consumption per sub-sector, projects approved by the Executive Committee, and industry information. These projects were applied to consumption at the rate required to complete the phase-out by the end of the grace periods for both London and Copenhagen. At the end of each year, the model estimates the amount of consumption of ODS which when aggregated constitutes the demand for ODS during the grace and phase-out periods.

13. The difference between aggregate consumption and the estimated unconstrained consumption without the Montreal Protocol represents the level of consumption avoided due to the Montreal Protocol. On this basis, approximately 6.6 to 6.9 million ODP tonnes of consumption in Article 5 countries would be avoided through 2010 (2015 for methyl chloroform) as a result of the Montreal Protocol under the London Amendment.

14. The ability of Article 5 countries with established production capacities to meet their own domestic demand during the grace and phase-out periods was also analyzed. The findings of this analysis are presented in Tables 1 and 2.

Supply of controlled substances during the grace and phase-out periods

15. Supply of ODS to meet the needs of Article 5 countries can be provided through production in Article 5 countries, imports from non-Article 5 countries, and recovery/recycling. The Update analyzes the ability to meet the needs of Article 5 countries from these sources.

16. Most Article 5 countries have included recycling of ODS as part of their national action plan of their country programmes; the provision of recycling equipment is supported under the Multilateral Fund. The model accounts for recycled ODS through the application of model recycling projects. Once a model recycling project is applied, ODS consumption is reduced, accordingly.

Production in Article 5 countries

17. Estimates of current levels of production and installed production capacity in Article 5 countries were collected from government and industry on a non-attributable basis.

18. Maximum allowable production is installed production capacity until control measures are applied. Since installed CFC production capacity exceeds consumption in the 1996 base year for applying control measures, it is assumed that 1996 maximum allowable production for CFCs will equal 1996 consumption. Tables 1 and 2 also present installed production capacity which is the manufacturing capacity that currently exists in Article 5 countries.

Exports from non-Article 5 countries to meet needs in Article 5 countries during the grace and phase-out periods

19. Producers in non-Article 5 countries currently provide significant quantities of the existing needs of Article 5 countries for ODS. Under the provisions of Article 2A to 2E, producers in non-Article 5 countries may continue to produce up to 15 per cent of their base year production after phase-out to meet the basic domestic needs of Article 5 countries.

20. Data for non-Article 5 production is compiled from statistics provided in "The Reporting of data by the Parties to the Montreal Protocol on substances that deplete the Ozone Layer" (UNEP/OzL.Pro.6/5, 15 July 1994). Tables 1 and 2 present the level of annual exports allowed during the grace and phase-out periods.

Table 1: LONDON PLUS A 10-YEAR GRACE PERIOD (in metric tonnes)

ODS/ YEAR	ESTIMATED CONSUMPTION (DEMAND)				PRODUCTION (SUPPLY)				EXCESS PRODUCTION CAPACITY IN ARTICLE 5 PRODUCING COUNTRIES
	TOTAL CONSUMPTION IN ARTICLE 5 COUNTRIES	ARTICLE 5 PRODUCER COUNTRIES	ARTICLE 5 NON-PRODUCER COUNTRIES	ARTICLE 5 COUNTRY MAXIMUM ALLOWABLE PRODUCTION	ARTICLE 5 COUNTRY INSTALLED PRODUCTION CAPACITY	ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	ARTICLE 5 COUNTRY INSTALLED PRODUCTION CAPACITY		
CFCs (1)	1996	149,388	85,828	63,560	149,388	196,500	196,500	151,811	63,560
	2005	74,033	42,534	31,499	74,694	196,500	196,500	151,811	32,160
	2007	22,011	12,646	9,365	37,347	196,500	196,500	151,811	24,701
Halons (2)	1994	9,041	5,696	3,345	8,350	8,350	8,350	5,939	2,654
	2002	6,363	4,009	2,354	8,350	8,350	8,350	5,939	4,341
	2005	4,432	2,792	1,640	4,175	8,350	8,350	5,939	1,383
CTC (3)	1999	6,891	6,301	590	6,400	6,400	6,400	30,382	99
	2005	1,034	945	88	960	6,400	6,400	30,382	15
Methyl Chloroform (4)	1999	49,949	2,547	47,402	4,600	4,600	4,600	98,391	2,053
	2003	49,949	2,547	47,402	4,600	4,600	4,600	98,391	2,053
	2005	34,964	1,783	33,181	3,220	4,600	4,600	98,391	1,437
	2010	14,985	764	14,221	1,380	4,600	4,600	98,391	616

Footnotes:

- (1) Production is reduced by 50 per cent of 1996 production levels in 2005 and 2006 and to 15 per cent of 1996 levels from 2007 to 2009. Production is phased out by 1 January 2010. Maximum allowable production is installed production capacity until control measures are applied, but for CFCs. It is assumed that production in 1996 in Article 5 countries will equal consumption in that year in those countries. Article 5 country installed production capacity is the manufacturing capacity that currently exists in Article 5 countries. Allowed production in non-Article 5 countries equals 15 per cent of 1996 production; 1996 production was 1,012,072 metric tonnes.
- (2) Production is restricted to 1996 production levels from 2002 through 2004 and reduced by 50 per cent of 1996 production levels from 2005 through 2009. Production is phased out by 1 January 2010. Maximum allowable production is installed production capacity until control measures are applied. Article 5 country installed production capacity is the manufacturing capacity that currently exists in Article 5 countries. Allowed production in non-Article 5 countries equals 15 per cent of 1996 production; 1996 production was 39,592 metric tonnes (assuming 4 ODP per metric tonne).
- (3) Production is reduced to 15 per cent of 1999 production levels from 2005 through 2009. Production is phased out by 1 January 2010. Maximum allowable production is installed production capacity until control measures are applied. Article 5 country installed production capacity is the manufacturing capacity that currently exists in Article 5 countries. Allowed production in non-Article 5 countries equals 15 per cent of 1999 production; 1999 production was 202,545 metric tonnes (with 1.1 ODP per metric tonne).
- (4) Production is restricted to 1999 levels of production in 2003 and 2004. Production is reduced to 70 per cent of 1999 levels for the years 2005 through 2009 and it is reduced to 30 per cent of 1999 levels for the years 2010 through 2014. Production is phased out by 1 January 2015. Maximum allowable production is installed production capacity until control measures are applied. Article 5 country installed production capacity is the manufacturing capacity that currently exists in Article 5 countries. Allowed production in non-Article 5 countries equals 15 per cent of 1999 production; 1999 production was 655,940 metric tonnes (with 0.1 ODP per metric tonne).

Table 2: COPENHAGEN PLUS A 10-YEAR GRACE PERIOD (in metric tonnes)

ODS/ YEAR	ESTIMATED CONSUMPTION (DEMAND)			PRODUCTION (SUPPLY)			EXCESS PRODUCTION CAPACITY IN ARTICLE 5 PRODUCER COUNTRIES
	TOTAL CONSUMPTION IN ARTICLE 5 COUNTRIES	ARTICLE 5 PRODUCER COUNTRIES	ARTICLE 5 NON-PRODUCER COUNTRIES	ARTICLE 5 COUNTRY MAXIMUM ALLOWABLE PRODUCTION	ARTICLE 5 COUNTRY INSTALLED PRODUCTION CAPACITY	ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	
CFCs (1)	1996	149,388	85,828	63,560	149,388	196,500	63,560
	2004	36,387	20,805	15,482	37,347	196,500	16,442
Halons (2)	1994	9,041	5,696	3,345	8,350	8,350	2,654
	2002	6,363	4,009	2,354	8,350	8,350	4,341
CTC: (3)	1999	6,891	6,301	590	6,400	6,400	99
	2005	1,034	945	89	960	6,400	15
Methyl Chloroform (4)	1999	49,949	2,547	47,402	4,600	4,600	2,053
	2003	49,949	2,547	47,402	4,600	4,600	2,053
	2003	24,974	1,274	23,700	2,300	4,600	2,053
	2004					4,600	1,026

Footnotes:

- (1) Production is reduced by 75 per cent of 1996 production in 2004 and 2005. Production is phased out by 1 January 2006. Maximum allowable production is installed production capacity until control measures are applied, but for CFCs, it is assumed that production in 1996 in Article 5 countries will equal consumption in that year in those countries. Article 5 country installed production capacity is the manufacturing capacity that currently exists in Article 5 countries. Allowed production in non-Article 5 countries equals 15 per cent of 1996 production; 1996 production was 1,012,072 metric tonnes.
- (2) Production cannot exceed 1998 production levels for 2002. Production is phased out by 1 January 2004. Maximum allowable production is installed production capacity until control measures are applied. Article 5 country installed production capacity is the manufacturing capacity that currently exists in Article 5 countries. Allowed production in non-Article 5 countries equals 15 per cent of 1998 production; 1998 production was 39,592 metric tonnes (assuming 4 ODP per metric tonne).
- (3) Production is reduced by 85 per cent of 1999 production levels in 2005. Production is phased out by 1 January 2006. Maximum allowable production is installed production capacity until control measures are applied. Article 5 country installed production capacity is the manufacturing capacity that currently exists in Article 5 countries. Allowed production in non-Article 5 countries equals 15 per cent of 1999 production; 1999 production was 202,645 metric tonnes (with 1.1 ODP per metric tonne).
- (4) Production is restricted to 1999 levels in 2003 and reduced to 50 per cent of 1999 levels in 2004. Production is phased out by 1 January 2006. Maximum allowable production is installed production capacity until control measures are applied. Article 5 country installed production capacity is the manufacturing capacity that currently exists in Article 5 countries. Allowed production in non-Article 5 countries equals 15 per cent of 1999 production; 1999 production was 655,940 metric tonnes (with 0.1 ODP per metric tonne).

Summary of Results

21. Tables 1 and 2 (above) present a summary of the results of the analysis. Estimated consumption is presented in total and separately for Article 5 countries that produce controlled substances and those that do not produce controlled substances. The potential supply of controlled substances during the grace and phase-out periods is presented for Article 5 countries and non-Article 5 countries. Article 5 country production is presented in terms of maximum allowable production and installed production capacity. Excess production capacity in Article 5 producing countries is the difference between Article 5 country maximum allowable production and estimated consumption in Article 5 producer countries.

London Amendment

22. A review of Table 1 reveals that there are adequate sources of supply to meet the needs of Article 5 countries throughout the grace and phase-out periods specified in the London Amendment. Specifically, there is sufficient production allowed in non-Article 5 countries to meet all of the needs of Article 5 countries from 1996 to the phase-out of Article 5 consumption in 2010/2015 with the exception of halons. The table also reveals that Article 5 producing countries have sufficient capacity to meet consumption needs of such countries throughout the grace and phase-out periods. The consumption needs of non-producing Article 5 countries can be met either with allowable production in non-Article 5 countries or, with the exceptions of halons, carbon tetrachloride, and methyl chloroform, through existing capacity in Article 5 country producers.

Copenhagen Amendment

23. A review of Table 2 also reveals that there are adequate sources of supply to meet the needs of Article 5 countries throughout the grace and phase-out periods in the Copenhagen Amendment; however, depending on assumptions regarding the source of supply, shortfalls may exist. Specifically, allowed levels of production in non-Article 5 countries cannot meet the needs of Article 5 countries for halons and are slightly below the level of CFCs required for 1995. Article 5 producers have the capacity to meet consumption needs of such countries for all chemicals. The consumption needs of non-producing Article 5 countries can be met either with allowable production in non-Article 5 countries or with the exceptions of halons (until 2002), carbon tetrachloride (from 1999 through phase-out), and methyl chloroform (from 1995 through phase-out) with excess production capacity in Article 5 country producers.

24. A more detailed breakdown of the data contained in Tables 1 and 2 are presented in the Annexes to the Update.

CFCs

25. The installed production capacity of Article 5 countries for CFCs is estimated to be 196,500 tonnes, and 1993 production is estimated at 78,314 tonnes. At these levels, Article 5 countries are producing at 40 per cent of capacity. Data were not available

separately for the specific types of CFCs, but approximately 99 per cent of production capacity in Article 5 countries can be attributed to the production of CFC-11 and CFC-12.

26. There is sufficient allowable production under the London and Copenhagen Amendments to meet the needs for CFCs in Article 5 countries. Non-Article 5 producers alone would be able to provide sufficient supplies of ODS to meet all of the needs of Article 5 countries. At maximum allowable levels of production, Article 5 country producers would also be able to meet the needs for CFCs; however, current levels of production would have to be expanded. (See Annexes 1 through 4)

27. There is sufficient capacity in Article 5 producing countries to meet consumption needs of such countries for CFCs under both the London and Copenhagen Amendments; however, current levels of production would have to be increased. (See Annexes 5 and 6)

28. Although consumption data for CFC-113, CFC-114, and CFC-115 were not available, some information was available about production. CFC-113 production is estimated at 1,600 metric tonnes which is approximately 1 per cent of total CFC technical production capacity in Article 5 countries. Although production capacity for CFC-113 exists in some Article 5 countries, this capacity is expected to be eliminated and in that case, the shortfall, if any, would have to be met through imports from developed countries. There seems to be sufficient production capacity to meet the projected demand for CFC-114. CFC-115 is not produced in Article 5 countries.

Halons

29. The installed production capacity of Article 5 countries for halons is 8,350 tonnes and current production is estimated at 4,310 tonnes. At this level, Article 5 countries are producing at about 50 per cent of capacity. Over 70 per cent of halon production capacity in Article 5 countries is for halon 1211.

30. Combined levels of production in both Article 5 and non-Article 5 countries are sufficient to meet demand for halons during the grace and phase-out periods while neither Article 5 production nor non-Article 5 production alone is sufficient to meet demand alone without additional recycling and halon banking (see Annexes 9 through 12). However, the Halons Technical Options Committee has concluded that there is sufficient halon available through established halon banking to meet all foreseeable needs.

31. Production capacities in Article 5 countries are sufficient to meet consumption needs of such countries for halons during the grace and phase-out periods if current levels of production are increased (see Annexes 13 through 16).

Carbon tetrachloride

32. There is sufficient production allowed under the Protocol to meet the needs for carbon tetrachloride. Producers in non-Article 5 countries will be allowed to supply over seven times the amount of carbon tetrachloride required during the grace period. The demand for carbon tetrachloride exceeds production capacity in Article 5 countries by less than 500 tonnes from 1999 through 2004 under both London and Copenhagen (see Annexes 17 through 20). There is sufficient capacity in Article 5 producing countries to meet consumption in such countries for carbon tetrachloride (see Annexes 21 through 24).

Methyl chloroform

33. There is sufficient production allowed under the Protocol to meet the needs for methyl chloroform in Article 5 countries. Allowed production in non-Article 5 countries is approximately twice the level of estimated consumption in Article 5 countries. Article 5 country production could only meet 10 per cent of the needs for methyl chloroform (see Annexes 25 through 28); however, installed production capacities in Article 5 producer countries are sufficient to meet consumption in such countries if current levels of production are increased. (See Annexes 29 through 32)

Annex 1

CFC CONSUMPTION AND PRODUCTION FROM 1996 THROUGH 2010 (in metric tonnes) LONDON PLUS A 10-YEAR GRACE PERIOD						
YEAR	CONSUMPTION AND PRODUCTION (1) IN ARTICLE 5 COUNTRIES			ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES (3)	CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES
	ESTIMATED CONSUMPTION	CURRENT PRODUCTION	MAXIMUM ALLOWABLE PRODUCTION (2)			
1996	149,388	78,314	149,388	151,811	230,125	301,199
1997	138,252	78,314	149,388	151,811	230,125	301,199
1998	126,237	78,314	149,388	151,811	230,125	301,199
1999	99,451	78,314	149,388	151,811	230,125	301,199
2000	92,901	78,314	149,388	151,811	230,125	301,199
2001	89,753	78,314	149,388	151,811	230,125	301,199
2002	86,835	78,314	149,388	151,811	230,125	301,199
2003	84,329	78,314	149,388	151,811	230,125	301,199
2004	81,710	78,314	149,388	151,811	230,125	301,199
2005	74,033	39,157	74,694	151,811	190,968	226,505
2006	71,193	39,157	74,694	151,811	190,968	226,505
2007	22,011	11,747	37,347	151,811	163,558	189,158
2008	19,416	11,747	37,347	151,811	163,558	189,158
2009	17,349	11,747	37,347	151,811	163,558	189,158
2010	0	0	0	0	0	0
TOTALS	1,152,858	818,381	1,605,921	2,125,351	2,943,733	3,731,272

Footnotes:

- (1) Production is reduced by 50 per cent of 1996 production levels in 2005 and 2006 and to 15 per cent of 1996 levels from 2007 to 2009. Production is phased out b
(2) Maximum allowable production is installed production capacity until control measures are applied, but for CFCs, it is assumed that production in 1996 in Article 5 countries will equal consumption in that year in those countries.
(3) Allowable production in non-Article 5 countries equals 15 per cent of 1996 production; 1986 production was 1,012,072 metric tonnes.

Annex 2

CFC SHORTFALLS AND SURPLUSES (1) FROM 1996 THROUGH 2010 (in metric tonnes) LONDON PLUS A 10-YEAR GRACE PERIOD				
YEAR	WITH CURRENT LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES
1996	(71,074)	0	80,737	151,811
1997	(59,938)	11,136	91,873	162,947
1998	(47,923)	23,151	103,888	174,962
1999	(21,137)	49,937	130,674	201,748
2000	(14,587)	56,487	137,224	208,298
2001	(11,439)	59,635	140,372	211,446
2002	(8,521)	62,553	143,290	214,364
2003	(6,015)	65,059	145,796	216,870
2004	(3,396)	67,678	148,415	219,489
2005	(34,876)	661	116,935	152,472
2006	(32,036)	3,501	119,775	155,312
2007	(10,264)	15,336	141,547	167,147
2008	(7,669)	17,931	144,142	169,742
2009	(5,602)	19,998	146,209	171,809
2010	0	0	0	0

Footnote:

(1) Shortfalls are indicated in parentheses.

CFC CONSUMPTION AND PRODUCTION FROM 1996 THROUGH 2006 (in metric tonnes) COPENHAGEN PLUS A 10-YEAR GRACE PERIOD						
YEAR	CONSUMPTION AND PRODUCTION (1) IN ARTICLE 5 COUNTRIES			ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES (3)	CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	MAXIMUM PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES
	ESTIMATED CONSUMPTION	CURRENT PRODUCTION	MAXIMUM ALLOWABLE PRODUCTION (2)			
1996	149,388	78,314	149,388	151,811	230,125	301,199
1997	138,252	78,314	149,388	151,811	230,125	301,199
1998	126,237	78,314	149,388	151,811	230,125	301,199
1999	99,451	78,314	149,388	151,811	230,125	301,199
2000	92,901	78,314	149,388	151,811	230,125	301,199
2001	89,753	78,314	149,388	151,811	230,125	301,199
2002	86,835	78,314	149,388	151,811	230,125	301,199
2003	84,329	78,314	149,388	151,811	230,125	301,199
2004	36,387	37,347	37,347	151,811	189,158	189,158
2005	33,656	37,347	37,347	151,811	189,158	189,158
2006	0	0	0	0	0	0
TOTALS	937,189	701,206	1,269,798	1,518,108	2,219,314	2,787,906

Footnotes:

- (1) Production is reduced by 75 per cent of 1996 production in 2004 and 2005. Production is phased out by 1 January 2006.
- (2) Maximum allowable production is installed production capacity until control measures are applied, but for CFCs, it is assumed that production in 1996 in Article 5 countries will equal consumption in that year in those countries.
- (3) Allowable production in non-Article 5 countries equals 15 per cent of 1986 production; 1986 production was 1,012,072 metric tonnes.

Annex 4

CFC SHORTFALLS AND SURPLUSES (1) FROM 1996 THROUGH 2006 (in metric tonnes) COPENHAGEN PLUS A 10-YEAR GRACE PERIOD				
YEAR	WITH CURRENT LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES
1996	(71,074)	0	80,737	151,811
1997	(59,938)	11,136	91,873	162,947
1998	(47,923)	23,151	103,888	174,962
1999	(21,137)	49,937	130,674	201,748
2000	(14,587)	56,487	137,224	208,298
2001	(11,439)	59,635	140,372	211,446
2002	(8,521)	62,553	143,290	214,364
2003	(6,015)	65,059	145,796	216,870
2004	960	960	152,771	152,771
2005	3,691	3,691	155,502	155,502
2006	0	0	0	0

Footnote:

(1) Shortfalls are indicated in parentheses.

Annex 5

CFC CONSUMPTION AND PRODUCTION FROM 1996 THROUGH 2010 FOR ARTICLE 5 COUNTRIES WITH ESTABLISHED PRODUCTION CAPACITIES (in metric tonnes) LONDON PLUS A 10-YEAR GRACE PERIOD						
YEAR	CONSUMPTION AND PRODUCTION (1) IN ARTICLE 5 COUNTRIES		MAXIMUM ALLOWABLE PRODUCTION (2)	ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES (3)	CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	MAXIMUM PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES
	ESTIMATED CONSUMPTION	CURRENT PRODUCTION				
1996	85,828	78,314	85,828	151,811	230,125	237,639
1997	79,430	78,314	85,828	151,811	230,125	237,639
1998	72,527	78,314	85,828	151,811	230,125	237,639
1999	57,138	78,314	85,828	151,811	230,125	237,639
2000	53,374	78,314	85,828	151,811	230,125	237,639
2001	51,566	78,314	85,828	151,811	230,125	237,639
2002	49,889	78,314	85,828	151,811	230,125	237,639
2003	48,449	78,314	85,828	151,811	230,125	237,639
2004	46,945	78,314	85,828	151,811	230,125	237,639
2005	42,534	39,157	42,914	151,811	190,968	194,725
2006	40,902	39,157	42,914	151,811	190,968	194,725
2007	12,646	11,747	21,457	151,811	163,558	173,268
2008	11,155	11,747	21,457	151,811	163,558	173,268
2009	9,968	11,747	21,457	151,811	163,558	173,268
2010	0	0	0	0	0	0
TOTALS	662,351	818,381	922,649	2,125,351	2,943,733	3,048,000

Footnotes:

- (1) Production is reduced by 50 per cent of 1996 production levels in 2005 and 2006 and to 15 per cent of 1996 levels from 2007 to 2009. Production is phased out by 1 January 2010.
- (2) Maximum allowable production is installed production capacity until control measures are applied, but for CFCs, it is assumed that production in 1996 in Article 5 countries will equal consumption in that year in those countries.
- (3) Allowed production in non-Article 5 countries equals 15 per cent of 1986 production; 1986 production was 1,012,072 metric tonnes.

Annex 6

CFC SHORTFALLS AND SURPLUSES (1) FROM 1996 THROUGH 2010 FOR ARTICLE 5 COUNTRIES WITH ESTABLISHED PRODUCTION CAPACITIES (in metric tonnes) LONDON PLUS A 10-YEAR GRACE PERIOD				
YEAR	WITH CURRENT LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWED PRODUCTION IN NON-ARTICLE 5 COUNTRIES
1996	(7,514)	0	144,297	151,811
1997	(1,116)	6,398	150,695	158,209
1998	5,787	13,301	157,598	165,112
1999	21,176	28,690	172,987	180,501
2000	24,940	32,453	176,750	184,264
2001	26,748	34,262	178,559	186,073
2002	28,425	35,939	180,236	187,749
2003	29,865	37,378	181,675	189,189
2004	31,369	38,883	183,180	190,694
2005	(3,377)	380	148,434	152,191
2006	(1,745)	2,011	150,065	153,822
2007	(899)	8,811	150,912	160,622
2008	592	10,302	152,403	162,113
2009	1,780	11,489	153,590	163,300
2010	0	0	0	0

Footnote:

(1) Shortfalls are indicated in parentheses.

Annex 7

CFC CONSUMPTION AND PRODUCTION FROM 1996 THROUGH 2006 FOR ARTICLE 5 COUNTRIES WITH ESTABLISHED PRODUCTION CAPACITIES (in metric tonnes) COPENHAGEN PLUS A 10-YEAR GRACE PERIOD						
YEAR	CONSUMPTION AND PRODUCTION (1) IN ARTICLE 5 COUNTRIES		ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES (3)	CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	
	ESTIMATED CONSUMPTION	CURRENT PRODUCTION				
1996	85,828	78,314	151,811	230,125	237,639	
1997	79,430	78,314	151,811	230,125	237,639	
1998	72,527	78,314	151,811	230,125	237,639	
1999	57,138	78,314	151,811	230,125	237,639	
2000	53,374	78,314	151,811	230,125	237,639	
2001	51,566	78,314	151,811	230,125	237,639	
2002	49,889	78,314	151,811	230,125	237,639	
2003	48,449	78,314	151,811	230,125	237,639	
2004	20,905	21,457	151,811	173,268	173,268	
2005	19,336	21,457	151,811	173,268	173,268	
2006	0	0	0	0	0	
TOTALS	538,443	669,426	1,518,108	2,187,534	2,247,644	

Footnotes:

- (1) Production is reduced by 75 per cent of 1996 production in 2004 and 2005. Production is phased out by 1 January 2006.
- (2) Maximum allowable production is installed production capacity until control measures are applied, but for CFCs, it is assumed that production in 1996 in Article 5 countries will equal consumption in that year in those countries.
- (3) Allowable production in non-Article 5 countries equals 15 per cent of 1986 production; 1986 production was 1,012,072 metric tonnes.

Annex 8

CFC SHORTFALLS AND SURPLUSES (1) FROM 1996 THROUGH 2006 FOR ARTICLE 5 COUNTRIES WITH ESTABLISHED PRODUCTION CAPACITIES (in metric tonnes) COPENHAGEN PLUS A 10-YEAR GRACE PERIOD				
YEAR	WITH CURRENT LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE LEVELS IN ARTICLE 5 COUNTRIES	WITH CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWABLE PRODUCTION IN NON- ARTICLE 5 COUNTRIES
1996	(7,514)	0	144,297	151,811
1997	(1,116)	6,398	150,695	158,209
1998	5,787	13,301	157,598	165,112
1999	21,176	28,690	172,987	180,501
2000	24,940	32,453	176,750	184,264
2001	26,748	34,262	178,559	186,073
2002	28,425	35,939	180,236	187,749
2003	29,865	37,378	181,675	189,189
2004	552	552	152,362	152,362
2005	2,121	2,121	153,931	153,931
2006	0	0	0	0

Footnote:

(1) Shortfalls are indicated in parentheses.

Annex 9

HALON CONSUMPTION AND PRODUCTION FROM 1994 THROUGH 2010 (in metric tonnes) LONDON PLUS A 10-YEAR GRACE PERIOD						
YEAR	CONSUMPTION AND PRODUCTION (1) IN ARTICLE 5 COUNTRIES			ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES (3)	CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES
	ESTIMATED CONSUMPTION	CURRENT PRODUCTION	MAXIMUM ALLOWABLE PRODUCTION (2)			
1994	9,041	4,310	8,350	5,939	10,249	14,289
1995	9,846	4,310	8,350	5,939	10,249	14,289
1996	10,726	4,310	8,350	5,939	10,249	14,289
1997	11,065	4,310	8,350	5,939	10,249	14,289
1998	11,393	4,310	8,350	5,939	10,249	14,289
1999	11,708	4,310	8,350	5,939	10,249	14,289
2000	12,009	4,310	8,350	5,939	10,249	14,289
2001	12,295	4,310	8,350	5,939	10,249	14,289
2002	6,363	4,310	8,350	5,939	10,249	14,289
2003	6,269	4,310	8,350	5,939	10,249	14,289
2004	6,199	4,310	8,350	5,939	10,249	14,289
2005	4,432	2,155	4,175	5,939	8,094	10,114
2006	4,432	2,155	4,175	5,939	8,094	10,114
2007	4,432	2,155	4,175	5,939	8,094	10,114
2008	4,432	2,155	4,175	5,939	8,094	10,114
2009	4,432	2,155	4,175	5,939	8,094	10,114
2010	0	0	0	0	0	0
TOTALS	129,074	58,185	112,725	95,021	153,206	207,746

Footnotes:

- (1) Production is restricted to 1996 production levels from 2002 through 2004 and reduced by 50 per cent of 1996 production levels from 2005 through 2009. Production is phased out by 1 January 2010.
- (2) Maximum allowable production is installed production capacity until control measures are applied.
- (3) Allowable production in non-Article 5 countries equals 15 per cent of 1986 production; 1986 production was 39,592 metric tonnes (assuming 4 ODP per metric tonne).

Annex 10

HALON SHORTFALLS AND SURPLUSES (1) FROM 1994 THROUGH 2010 (in metric tonnes) LONDON PLUS A 10-YEAR GRACE PERIOD				
YEAR	WITH CURRENT LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE LEVEL OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES
1994	(4,731)	(691)	1,208	5,248
1995	(5,536)	(1,496)	403	4,443
1996	(6,416)	(2,376)	(477)	3,563
1997	(6,755)	(2,715)	(816)	3,224
1998	(7,083)	(3,043)	(1,144)	2,896
1999	(7,398)	(3,358)	(1,459)	2,581
2000	(7,699)	(3,659)	(1,760)	2,280
2001	(7,985)	(3,945)	(2,046)	1,994
2002	(2,053)	1,987	3,886	7,926
2003	(1,959)	2,081	3,980	8,020
2004	(1,889)	2,151	4,050	8,090
2005	(2,277)	(257)	3,662	5,682
2006	(2,277)	(257)	3,662	5,682
2007	(2,277)	(257)	3,662	5,682
2008	(2,277)	(257)	3,662	5,682
2009	(2,277)	(257)	3,662	5,682
2010	0	0	0	0

Footnote:

(1) Shortfalls are indicated in parentheses.

Annex 11

HALON CONSUMPTION AND PRODUCTION FROM 1994 THROUGH 2004 (in metric tonnes)						
YEAR	CONSUMPTION AND PRODUCTION (1) IN ARTICLE 5 COUNTRIES			ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES (3)	CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES
	ESTIMATED CONSUMPTION	CURRENT PRODUCTION	MAXIMUM ALLOWABLE PRODUCTION (2)			
1994	9,041	4,310	8,350	5,939	10,249	14,289
1995	9,846	4,310	8,350	5,939	10,249	14,289
1996	10,726	4,310	8,350	5,939	10,249	14,289
1997	11,065	4,310	8,350	5,939	10,249	14,289
1998	11,393	4,310	8,350	5,939	10,249	14,289
1999	11,708	4,310	8,350	5,939	10,249	14,289
2000	12,009	4,310	8,350	5,939	10,249	14,289
2001	12,295	4,310	8,350	5,939	10,249	14,285
2002	6,363	4,310	8,350	5,939	10,249	14,289
2003	6,269	4,310	8,350	5,939	10,249	14,289
2004	0	0	0	0	0	0
TOTALS	100,715	43,100	83,500	59,388	102,488	142,888

Footnotes:

- (1) Production cannot exceed 1996 production levels for 2002. Production is phased out by 1 January 2004.
- (2) Maximum allowable production is installed production capacity until control measures are applied.
- (3) Allowable production in non-Article 5 countries equals 15 per cent of 1986 production; 1986 production was 39,592 metric tonnes (assuming 4 ODP per metric tonne).

Annex 12

HALON SHORTFALLS AND SURPLUSES (1) FROM 1994 THROUGH 2004 (in metric tonnes) COPENHAGEN PLUS A 10-YEAR GRACE PERIOD				
YEAR	WITH CURRENT LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE COUNTRIES AND ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES
1994	(4,731)	(691)	1,208	5,248
1995	(5,536)	(1,496)	403	4,443
1996	(6,416)	(2,376)	(477)	3,563
1997	(6,755)	(2,715)	(816)	3,224
1998	(7,083)	(3,043)	(1,144)	2,896
1999	(7,398)	(3,358)	(1,459)	2,581
2000	(7,699)	(3,659)	(1,760)	2,280
2001	(7,985)	(3,945)	(2,046)	1,994
2002	(2,053)	1,987	3,886	7,926
2003	(1,959)	2,081	3,980	8,020
2004	0	0	0	0

Footnote:

(1) Shortfalls are indicated in parentheses.

Annex 13

HALON CONSUMPTION AND PRODUCTION FROM 1994 THROUGH 2010 FOR ARTICLE 5 COUNTRIES WITH ESTABLISHED PRODUCTION CAPACITIES (in metric tonnes) LONDON PLUS A 10-YEAR GRACE PERIOD							
YEAR	CONSUMPTION AND PRODUCTION (1) IN ARTICLE 5 COUNTRIES		ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES (2)		ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES (3)	CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES
	ESTIMATED CONSUMPTION	CURRENT PRODUCTION	CURRENT PRODUCTION	MAXIMUM ALLOWABLE PRODUCTION (2)			
1994	5,696	4,310	4,310	8,350	5,939	10,249	14,289
1995	6,203	4,310	4,310	8,350	5,939	10,249	14,289
1996	6,757	4,310	4,310	8,350	5,939	10,249	14,289
1997	6,971	4,310	4,310	8,350	5,939	10,249	14,289
1998	7,178	4,310	4,310	8,350	5,939	10,249	14,289
1999	7,376	4,310	4,310	8,350	5,939	10,249	14,289
2000	7,566	4,310	4,310	8,350	5,939	10,249	14,289
2001	7,746	4,310	4,310	8,350	5,939	10,249	14,289
2002	4,009	4,310	4,310	8,350	5,939	10,249	14,289
2003	3,949	4,310	4,310	8,350	5,939	10,249	14,289
2004	3,905	4,310	4,310	8,350	5,939	10,249	14,289
2005	2,792	2,155	2,155	4,175	5,939	8,094	10,114
2006	2,792	2,155	2,155	4,175	5,939	8,094	10,114
2007	2,792	2,155	2,155	4,175	5,939	8,094	10,114
2008	2,792	2,155	2,155	4,175	5,939	8,094	10,114
2009	2,792	2,155	2,155	4,175	5,939	8,094	10,114
2010	0	0	0	0	0	0	0
TOTALS	81,317	58,185	58,185	112,725	95,021	153,206	207,746

Footnotes:

- (1) Production is restricted to 1996 production levels from 2002 through 2004 and reduced by 50 per cent of 1996 production levels from 2005 through 2009. Production is phased out by 1 January 2010.
- (2) Maximum allowable production is installed production capacity until control measures are applied.
- (3) Allowable production in non-Article 5 countries equals 15 per cent of 1986 production; 1986 production was 39,592 metric tonnes (assuming 4 ODP per metric tonne).

Annex 14

HALON SHORTFALLS AND SURPLUSES (1) FROM 1994 THROUGH 2010 FOR ARTICLE 5 COUNTRIES WITH ESTABLISHED PRODUCTION CAPACITIES (in metric tonnes) LONDON PLUS A 10-YEAR GRACE PERIOD				
YEAR	WITH CURRENT LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE LEVEL OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES
1994	(1,386)	2,654	4,553	8,593
1995	(1,893)	2,147	4,046	8,086
1996	(2,447)	1,593	3,491	7,531
1997	(2,661)	1,379	3,278	7,318
1998	(2,868)	1,172	3,071	7,111
1999	(3,066)	974	2,873	6,913
2000	(3,256)	784	2,683	6,723
2001	(3,436)	604	2,503	6,543
2002	301	4,341	6,240	10,280
2003	361	4,401	6,299	10,339
2004	405	4,445	6,343	10,383
2005	(637)	1,383	5,302	7,322
2006	(637)	1,383	5,302	7,322
2007	(637)	1,383	5,302	7,322
2008	(637)	1,383	5,302	7,322
2009	(637)	1,383	5,302	7,322
2010	0	0	0	0

Footnote:

(1) Shortfalls are indicated in parentheses.

Annex 15

HALON CONSUMPTION AND PRODUCTION FROM 1994 THROUGH 2004 FOR ARTICLE 5 COUNTRIES WITH ESTABLISHED PRODUCTION CAPACITIES (in metric tonnes) COPENHAGEN PLUS A 10-YEAR GRACE PERIOD						
YEAR	CONSUMPTION AND PRODUCTION (1) IN ARTICLE 5 COUNTRIES			ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES (3)	CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES
	ESTIMATED CONSUMPTION	CURRENT PRODUCTION	MAXIMUM ALLOWABLE PRODUCTION (2)			
1994	5,696	4,310	8,350	5,939	10,249	14,289
1995	6,203	4,310	8,350	5,939	10,249	14,289
1996	6,757	4,310	8,350	5,939	10,249	14,289
1997	6,971	4,310	8,350	5,939	10,249	14,289
1998	7,178	4,310	8,350	5,939	10,249	14,289
1999	7,376	4,310	8,350	5,939	10,249	14,289
2000	7,566	4,310	8,350	5,939	10,249	14,289
2001	7,746	4,310	8,350	5,939	10,249	14,289
2002	4,009	4,310	8,350	5,939	10,249	14,289
2003	3,949	4,310	8,350	5,939	10,249	14,289
2004	0	0	0	0	0	0
TOTALS	63,450	43,100	83,500	59,388	102,488	142,888

Footnotes:

- (1) Production cannot exceed 1996 production levels for 2002. Production is phased out by 1 January 2004.
- (2) Maximum allowable production is installed production capacity until control measures are applied.
- (3) Allowable production in non-Article 5 countries equals 15 per cent of 1986 production; 1986 production was 39,592 metric tonnes (assuming 4 ODP per metric tonne).

Annex 16

HALON SHORTFALLS AND SURPLUSES (1) FROM 1994 THROUGH 2004 FOR ARTICLE 5 COUNTRIES WITH ESTABLISHED PRODUCTION CAPACITIES (in metric tonnes) COPENHAGEN PLUS A 10-YEAR GRACE PERIOD				
YEAR	WITH CURRENT LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES
1994	(1,386)	2,654	4,553	8,593
1995	(1,893)	2,147	4,046	8,086
1996	(2,447)	1,593	3,491	7,531
1997	(2,661)	1,379	3,278	7,318
1998	(2,868)	1,172	3,071	7,111
1999	(3,066)	974	2,873	6,913
2000	(3,256)	784	2,683	6,723
2001	(3,436)	604	2,503	6,543
2002	301	4,341	6,240	10,280
2003	361	4,401	6,299	10,339
2004	0	0	0	0

Footnote:

(1) Shortfalls are indicated in parentheses.

Annex 17

CARBON TETRACHLORIDE CONSUMPTION AND PRODUCTION FROM 1996 THROUGH 2010 (in metric tonnes)						
LONDON PLUS A 10-YEAR GRACE PERIOD						
YEAR	CONSUMPTION AND PRODUCTION (1) IN ARTICLE 5 COUNTRIES		ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES (3)	CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWED PRODUCTION IN NON-ARTICLE 5 COUNTRIES	
	ESTIMATED CONSUMPTION	CURRENT PRODUCTION				
1996	5,270	4,200	30,382	34,582	36,782	
1997	5,763	4,200	30,382	34,582	36,782	
1998	6,302	4,200	30,382	34,582	36,782	
1999	6,891	4,200	30,382	34,582	36,782	
2000	6,891	4,200	30,382	34,582	36,782	
2001	6,891	4,200	30,382	34,582	36,782	
2002	6,891	4,200	30,382	34,582	36,782	
2003	6,891	4,200	30,382	34,582	36,782	
2004	6,891	4,200	30,382	34,582	36,782	
2005	1,034	630	30,382	31,012	31,342	
2006	1,034	630	30,382	31,012	31,342	
2007	1,034	630	30,382	31,012	31,342	
2008	1,034	630	30,382	31,012	31,342	
2009	1,034	630	30,382	31,012	31,342	
2010	0	0	0	0	0	
TOTALS	63,851	40,950	425,345	466,295	487,745	

Footnotes:

- (1) Production is reduced to 15 per cent of 1999 production levels from 2005 through 2009. Production is phased out by 1 January 2010.
- (2) Maximum allowable production is installed production capacity until control measures are applied.
- (3) Allowable production in non-Article 5 countries equals 15 per cent of 1989 production; 1989 production was 202,545 metric tonnes (with 1.1 ODP per metric tonne).

Annex 18

CARBON TETRACHLORIDE SHORTFALLS AND SURPLUSES (1) FROM 1996 THROUGH 2010 (in metric tonnes) LONDON PLUS A 10-YEAR GRACE PERIOD				
YEAR	WITH CURRENT LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES
1996	(1,070)	1,130	29,312	31,512
1997	(1,563)	637	28,819	31,019
1998	(2,102)	98	28,280	30,480
1999	(2,691)	(491)	27,691	29,891
2000	(2,691)	(491)	27,691	29,891
2001	(2,691)	(491)	27,691	29,891
2002	(2,691)	(491)	27,691	29,891
2003	(2,691)	(491)	27,691	29,891
2004	(2,691)	(491)	27,691	29,891
2005	(404)	(74)	29,978	30,308
2006	(404)	(74)	29,978	30,308
2007	(404)	(74)	29,978	30,308
2008	(404)	(74)	29,978	30,308
2009	(404)	(74)	29,978	30,308
2010	0	0	0	0

Footnote:

(1) Shortfalls are indicated in parentheses.

Annex 19

CARBON TETRACHLORIDE CONSUMPTION AND PRODUCTION FROM 1996 THROUGH 2006 (in metric tonnes)						
YEAR	CONSUMPTION AND PRODUCTION (1) IN ARTICLE 5 COUNTRIES		ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES (3)	CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	
	ESTIMATED CONSUMPTION	CURRENT PRODUCTION				
1996	5,270	4,200	30,382	34,582	36,782	
1997	5,763	4,200	30,382	34,582	36,782	
1998	6,302	4,200	30,382	34,582	36,782	
1999	6,891	4,200	30,382	34,582	36,782	
2000	6,891	4,200	30,382	34,582	36,782	
2001	6,891	4,200	30,382	34,582	36,782	
2002	6,891	4,200	30,382	34,582	36,782	
2003	6,891	4,200	30,382	34,582	36,782	
2004	6,891	4,200	30,382	34,582	36,782	
2005	1,034	630	30,382	31,012	31,342	
2006	0	0	0	0	0	
TOTALS	59,715	38,430	303,818	342,248	362,378	

Footnotes:

(1) Production is reduced by 85 per cent of 1999 production levels in 2005. Production is phased out by 1 January 2006.

(2) Maximum allowable production is installed production capacity until control measures are applied.

(3) Allowable production in non-Article 5 countries equals 15 per cent of 1989 production; 1989 production was 202,545 metric tonnes (with 1.1 ODP per metric tonne).

Annex 20

CARBON TETRACHLORIDE SHORTFALLS AND SURPLUSES (1) FROM 1996 THROUGH 2006 (in metric tonnes) COPENHAGEN PLUS A 10-YEAR GRACE PERIOD					
YEAR	WITH CURRENT LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWED PRODUCTION IN NON-ARTICLE 5 COUNTRIES	
1996	(1,070)	1,130	29,312	31,512	
1997	(1,563)	637	28,819	31,019	
1998	(2,102)	98	28,280	30,480	
1999	(2,691)	(491)	27,691	29,891	
2000	(2,691)	(491)	27,691	29,891	
2001	(2,691)	(491)	27,691	29,891	
2002	(2,691)	(491)	27,691	29,891	
2003	(2,691)	(491)	27,691	29,891	
2004	(2,691)	(491)	27,691	29,891	
2005	(404)	(74)	29,978	30,308	
2006	0	0	0	0	

Footnote:

(1) Shortfalls are indicated in parentheses.

Annex 21

CARBON TETRACHLORIDE CONSUMPTION AND PRODUCTION FROM 1996 THROUGH 2010 FOR ARTICLE 5 COUNTRIES WITH ESTABLISHED PRODUCTION CAPACITIES (in metric tonnes)
LONDON PLUS A 10-YEAR GRACE PERIOD

YEAR	CONSUMPTION AND PRODUCTION (1) IN ARTICLE 5 COUNTRIES		ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES (3)	CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWED PRODUCTION IN NON-ARTICLE 5 COUNTRIES
	ESTIMATED CONSUMPTION	CURRENT PRODUCTION			
1996	4,818	4,200	30,382	34,582	36,782
1997	5,269	4,200	30,382	34,582	36,782
1998	5,762	4,200	30,382	34,582	36,782
1999	6,300	4,200	30,382	34,582	36,782
2000	6,300	4,200	30,382	34,582	36,782
2001	6,300	4,200	30,382	34,582	36,782
2002	6,300	4,200	30,382	34,582	36,782
2003	6,300	4,200	30,382	34,582	36,782
2004	6,300	4,200	30,382	34,582	36,782
2005	945	630	30,382	31,012	31,342
2006	945	630	30,382	31,012	31,342
2007	945	630	30,382	31,012	31,342
2008	945	630	30,382	31,012	31,342
2009	945	630	30,382	31,012	31,342
2010	0	0	0	0	0
TOTALS	58,378	40,950	425,345	466,295	487,745

Footnotes:

- (1) Production is reduced to 15 per cent of 1999 production levels from 2005 through 2009. Production is phased out by 1 January 2010.
- (2) Maximum allowable production is installed production capacity until control measures are applied.
- (3) Allowable production in non-Article 5 countries equals 15 per cent of 1989 production; 1989 production was 202,545 metric tonnes (with 1.1 ODP per metric tonne).

Annex 22

CARBON TETRACHLORIDE SHORTFALLS AND SURPLUSES (1) FROM 1996 THROUGH 2010 FOR ARTICLE 5 COUNTRIES WITH ESTABLISHED PRODUCTION CAPACITIES (in metric tonnes) LONDON PLUS A 10-YEAR GRACE PERIOD				
YEAR	WITH CURRENT LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWABLE PRODUCTION IN NON- ARTICLE 5 COUNTRIES
1996	(618)	1,582	29,763	31,963
1997	(1,069)	1,131	29,313	31,513
1998	(1,562)	638	28,820	31,020
1999	(2,100)	100	28,281	30,481
2000	(2,100)	100	28,281	30,481
2001	(2,100)	100	28,281	30,481
2002	(2,100)	100	28,281	30,481
2003	(2,100)	100	28,281	30,481
2004	(2,100)	100	28,281	30,481
2005	(315)	15	30,066	30,396
2006	(315)	15	30,066	30,396
2007	(315)	15	30,066	30,396
2008	(315)	15	30,066	30,396
2009	(315)	15	30,066	30,396
2010	0	0	0	0

Footnote:

(1) Shortfalls are indicated in parentheses.

Annex 23

CARBON TETRACHLORIDE CONSUMPTION AND PRODUCTION FROM 1996 THROUGH 2006 FOR ARTICLE 5 COUNTRIES WITH ESTABLISHED PRODUCTION CAPACITIES (in metric tonnes) COPENHAGEN PLUS A 10-YEAR GRACE PERIOD						
YEAR	CONSUMPTION AND PRODUCTION (1) IN ARTICLE 5 COUNTRIES		ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES (3)	CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	
	ESTIMATED CONSUMPTION	CURRENT PRODUCTION				
1996	4,819	4,200	30,382	34,582	36,782	
1997	5,270	4,200	30,382	34,582	36,782	
1998	5,763	4,200	30,382	34,582	36,782	
1999	6,301	4,200	30,382	34,582	36,782	
2000	6,301	4,200	30,382	34,582	36,782	
2001	6,301	4,200	30,382	34,582	36,782	
2002	6,301	4,200	30,382	34,582	36,782	
2003	6,301	4,200	30,382	34,582	36,782	
2004	6,301	4,200	30,382	34,582	36,782	
2005	946	630	30,382	31,012	31,342	
2006	0	0	0	0	0	
TOTALS	54,605	38,430	303,818	342,248	362,378	

Footnotes:

- (1) Production is reduced by 85 per cent of 1999 production levels in 2005. Production is phased out by 1 January 2006.
(2) Maximum allowable production is installed production capacity until control measures are applied.
(3) Allowable production in non-Article 5 countries equals 15 per cent of 1989 production was 202,545 metric tonnes (with 1.1 ODP per metric tonne).

Annex 24

CARBON TETRACHLORIDE SHORTFALLS AND SURPLUSES (1) FROM 1996 THROUGH 2006 FOR ARTICLE 5 COUNTRIES WITH ESTABLISHED PRODUCTION CAPACITIES (in metric tonnes) COPENHAGEN PLUS A 10-YEAR GRACE PERIOD				
YEAR	WITH CURRENT LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWED PRODUCTION IN NON- ARTICLE 5 COUNTRIES
1996	(619)	1,581	29,763	31,963
1997	(1,070)	1,130	29,312	31,512
1998	(1,563)	637	28,819	31,019
1999	(2,101)	99	28,280	30,480
2000	(2,101)	99	28,280	30,480
2001	(2,101)	99	28,280	30,480
2002	(2,101)	99	28,280	30,480
2003	(2,101)	99	28,280	30,480
2004	(2,101)	99	28,280	30,480
2005	(316)	14	30,066	30,396
2006	0	0	0	0

Footnote:

(1) Shortfalls are indicated in parentheses.

Annex 25

METHYL CHLOROFORM CONSUMPTION AND PRODUCTION FROM 1986 THROUGH 2015 (in metric tonnes)						
YEAR	CONSUMPTION AND PRODUCTION (1) IN ARTICLE 5 COUNTRIES		ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES (3)	CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWED PRODUCTION IN NON-ARTICLE 5 COUNTRIES	
	ESTIMATED CONSUMPTION	CURRENT PRODUCTION				
1996	38,200	1,500	98,391	99,891	102,991	
1997	41,772	1,500	98,391	99,891	102,991	
1998	45,678	1,500	98,391	99,891	102,991	
1999	49,949	1,500	98,391	99,891	102,991	
2000	49,949	1,500	98,391	99,891	102,991	
2001	49,949	1,500	98,391	99,891	102,991	
2002	49,949	1,500	98,391	99,891	102,991	
2003	49,949	1,500	98,391	99,891	102,991	
2004	49,949	1,500	98,391	99,891	102,991	
2005	34,964	1,050	98,391	99,441	101,611	
2006	34,964	1,050	98,391	99,441	101,611	
2007	34,964	1,050	98,391	99,441	101,611	
2008	34,964	1,050	98,391	99,441	101,611	
2009	34,964	1,050	98,391	99,441	101,611	
2010	14,985	450	98,391	98,841	99,771	
2011	14,985	450	98,391	98,841	99,771	
2012	14,985	450	98,391	98,841	99,771	
2013	14,985	450	98,391	98,841	99,771	
2014	14,985	450	98,391	98,841	99,771	
2015	0	0	0	0	0	
TOTALS	675,089	21,000	1,869,429	1,890,429	1,933,829	

Footnotes:

- (1) Production is restricted to 1999 levels of production in 2003 and 2004. Production is reduced to 70 per cent of 1999 levels for the years 2005 through 2009 and it is reduced to 30 per cent of 1999 levels for the years 2010 through 2014. Production is phased out by 1 January 2015.
- (2) Maximum allowable production is installed production capacity until control measures are applied.
- (3) Allowable production in non-Article 5 countries equals 15 per cent of 1989 production; 1989 production was 655,940 metric tonnes (with 0.1 ODP per metric tonne).

Annex 26

METHYL CHLOROFORM SHORTFALLS AND SURPLUSES (1) FROM 1996 THROUGH 2015 (in metric tonnes) LONDON PLUS A 10-YEAR GRACE PERIOD				
YEAR	WITH CURRENT LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWED PRODUCTION IN NON-ARTICLE 5 COUNTRIES
1996	(36,700)	(33,600)	61,691	64,791
1997	(40,272)	(37,172)	58,119	61,219
1998	(44,178)	(41,078)	54,213	57,313
1999	(48,449)	(45,349)	49,942	53,042
2000	(48,449)	(45,349)	49,942	53,042
2001	(48,449)	(45,349)	49,942	53,042
2002	(48,449)	(45,349)	49,942	53,042
2003	(48,449)	(45,349)	49,942	53,042
2004	(48,449)	(45,349)	49,942	53,042
2005	(33,914)	(31,744)	64,477	66,647
2006	(33,914)	(31,744)	64,477	66,647
2007	(33,914)	(31,744)	64,477	66,647
2008	(33,914)	(31,744)	64,477	66,647
2009	(33,914)	(31,744)	64,477	66,647
2010	(14,535)	(13,605)	83,856	84,786
2011	(14,535)	(13,605)	83,856	84,786
2012	(14,535)	(13,605)	83,856	84,786
2013	(14,535)	(13,605)	83,856	84,786
2014	(14,535)	(13,605)	83,856	84,786
2015	0	0	0	0

Footnote:

(1) Shortfalls are indicated in parentheses.

Annex 27

METHYL CHLOROFORM CONSUMPTION AND PRODUCTION FROM 1996 THROUGH 2006 (in metric tonnes)						
YEAR	CONSUMPTION AND PRODUCTION (1) IN ARTICLE 5 COUNTRIES			ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	CURRENT PRODUCTION PLUS ALLOWED PRODUCTION IN NON-ARTICLE 5 COUNTRIES	MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES
	ESTIMATED CONSUMPTION	CURRENT PRODUCTION	MAXIMUM ALLOWABLE PRODUCTION (2)			
1996	38,200	1,500	4,600	9,839	11,339	14,439
1997	41,772	1,500	4,600	9,839	11,339	14,439
1998	45,678	1,500	4,600	9,839	11,339	14,439
1999	49,949	1,500	4,600	9,839	11,339	14,439
2000	49,949	1,500	4,600	9,839	11,339	14,439
2001	49,949	1,500	4,600	9,839	11,339	14,439
2002	49,949	1,500	4,600	9,839	11,339	14,439
2003	49,949	1,500	4,600	9,839	11,339	14,439
2004	24,974	750	2,300	9,839	10,589	12,139
2005	24,974	750	2,300	9,839	10,589	12,139
2006	0	0	0	0	0	0
TOTALS	425,343	13,500	41,400	98,391	111,891	139,791

Footnotes:

- (1) Production is restricted to 1999 levels in 2003 and reduced to 50 per cent of 1999 levels in 2004. Production is phased out by 1 January 2006.
 (2) Maximum allowable production is installed production capacity until control measures are applied.
 (3) Allowable production in non-Article 5 countries equals 15 per cent of 1989 production; 1989 production was 655,940 metric tonnes (with 0.1 ODP per metric tonne).

Annex 28

METHYL CHLOROFORM SHORTFALLS AND SURPLUSES (1) FROM 1996 THROUGH 2006 (in metric tonnes) COPENHAGEN PLUS A 10-YEAR GRACE PERIOD					
YEAR	WITH CURRENT LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	
1996	(36,700)	(33,600)	(26,861)	(23,761)	
1997	(40,272)	(37,172)	(30,433)	(27,333)	
1998	(44,178)	(41,078)	(34,339)	(31,239)	
1999	(48,449)	(45,349)	(38,610)	(35,510)	
2000	(48,449)	(45,349)	(38,610)	(35,510)	
2001	(48,449)	(45,349)	(38,610)	(35,510)	
2002	(48,449)	(45,349)	(38,610)	(35,510)	
2003	(48,449)	(45,349)	(38,610)	(35,510)	
2004	(24,224)	(22,674)	(14,385)	(12,835)	
2005	(24,224)	(22,674)	(14,385)	(12,835)	
2006	0	0	0	0	

Footnote:

(1) Shortfalls are indicated in parentheses.

Annex 29

METHYL CHLOROFORM CONSUMPTION AND PRODUCTION FROM 1996 THROUGH 2015 FOR ARTICLE 5 COUNTRIES WITH ESTABLISHED PRODUCTION CAPACITIES (in metric tonnes) LONDON PLUS A 10-YEAR GRACE PERIOD						
YEAR	CONSUMPTION AND PRODUCTION (1) IN ARTICLE 5 COUNTRIES		ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES (3)	CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWED PRODUCTION IN NON-ARTICLE 5 COUNTRIES	
	ESTIMATED CONSUMPTION	CURRENT PRODUCTION				
1996	1,948	1,500	98,391	99,891	102,991	
1997	2,130	1,500	98,391	99,891	102,991	
1998	2,329	1,500	98,391	99,891	102,991	
1999	2,547	1,500	98,391	99,891	102,991	
2000	2,547	1,500	98,391	99,891	102,991	
2001	2,547	1,500	98,391	99,891	102,991	
2002	2,547	1,500	98,391	99,891	102,991	
2003	2,547	1,650	98,391	100,041	102,991	
2004	2,547	1,650	98,391	100,041	102,991	
2005	1,783	1,050	98,391	99,441	101,611	
2006	1,783	1,050	98,391	99,441	101,611	
2007	1,783	1,050	98,391	99,441	101,611	
2008	1,783	1,050	98,391	99,441	101,611	
2009	1,783	1,050	98,391	99,441	101,611	
2010	764	450	98,391	98,841	99,771	
2011	764	450	98,391	98,841	99,771	
2012	764	450	98,391	98,841	99,771	
2013	764	450	98,391	98,841	99,771	
2014	764	450	98,391	98,841	99,771	
2015	0	0	0	0	0	
TOTALS	34,426	21,300	1,869,429	1,890,729	1,933,829	

Footnotes:

- (1) Production is restricted to 1999 levels of production in 2003 and 2004. Production is reduced to 70 per cent of 1999 levels for the years 2005 through 2009 and it is reduced to 30 per cent of 1999 levels for the years 2010 through 2014. Production is phased out by 1 January 2015.
- (2) Maximum allowable production is installed production capacity until control measures are applied.
- (3) Allowable production in non-Article 5 countries equals 15 per cent of 1989 production; 1989 production was 655,940 metric tonnes (with 0.1 ODP per metric tonne).

Annex 30

METHYL CHLOROFORM SHORTFALLS AND SURPLUSES (1) FROM 1996 THROUGH 2015 FOR ARTICLE 5 COUNTRIES WITH ESTABLISHED PRODUCTION CAPACITIES (in metric tonnes) LONDON PLUS A 10-YEAR GRACE PERIOD					
YEAR	WITH CURRENT LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWED PRODUCTION IN NON- ARTICLE 5 COUNTRIES	
1996	(448)	2,652	97,943	101,043	
1997	(630)	2,470	97,761	100,861	
1998	(829)	2,271	97,562	100,662	
1999	(1,047)	2,053	97,344	100,444	
2000	(1,047)	2,053	97,344	100,444	
2001	(1,047)	2,053	97,344	100,444	
2002	(1,047)	2,053	97,344	100,444	
2003	(897)	2,053	97,494	100,444	
2004	(897)	2,053	97,494	100,444	
2005	(733)	1,437	97,658	99,828	
2006	(733)	1,437	97,658	99,828	
2007	(733)	1,437	97,658	99,828	
2008	(733)	1,437	97,658	99,828	
2009	(733)	1,437	97,658	99,828	
2010	(314)	616	98,077	99,007	
2011	(314)	616	98,077	99,007	
2012	(314)	616	98,077	99,007	
2013	(314)	616	98,077	99,007	
2014	(314)	616	98,077	99,007	
2015	0	0	0	0	

Footnote:

(1) Shortfalls are indicated in parentheses.

Annex 31

METHYL CHLOROFORM CONSUMPTION AND PRODUCTION FROM 1996 THROUGH 2006 FOR ARTICLE 5 COUNTRIES WITH ESTABLISHED PRODUCTION CAPACITIES (in metric tonnes) COPENHAGEN PLUS A 10-YEAR GRACE PERIOD						
YEAR	CONSUMPTION AND PRODUCTION (1) IN ARTICLE 5 COUNTRIES		MAXIMUM ALLOWABLE PRODUCTION (2)	ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	MAXIMUM PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES
	ESTIMATED CONSUMPTION	CURRENT PRODUCTION				
1996	1,948	1,500	4,600	98,391	99,891	102,991
1997	2,130	1,500	4,600	98,391	99,891	102,991
1998	2,329	1,500	4,600	98,391	99,891	102,991
1999	2,547	1,500	4,600	98,391	99,891	102,991
2000	2,547	1,500	4,600	98,391	99,891	102,991
2001	2,547	1,500	4,600	98,391	99,891	102,991
2002	2,547	1,500	4,600	98,391	99,891	102,991
2003	2,547	1,500	4,600	98,391	99,891	102,991
2004	1,274	750	2,300	98,391	99,141	100,691
2005	1,274	750	2,300	98,391	99,141	100,691
2006	0	0	0	0	0	0
TOTALS	21,690	13,500	41,400	983,910	997,410	1,025,310

Footnotes:

- (1) Production is restricted to 1999 levels in 2003 and reduced to 50 per cent of 1999 levels in 2004. Production is phased out by 1 January 2006.
- (2) Maximum allowable production is installed production capacity until control measures are applied.
- (3) Allowable production in non-Article 5 countries equals 15 per cent of 1989 production; 1989 production was 655,940 metric tonnes (with 0.1 ODP per metric tonne).

Annex 32

METHYL CHLOROFORM SHORTFALLS AND SURPLUSES (1) FROM 1996 THROUGH 2006 FOR ARTICLE 5 COUNTRIES WITH ESTABLISHED PRODUCTION CAPACITIES (in metric tonnes) COPENHAGEN PLUS A 10-YEAR GRACE PERIOD				
YEAR	WITH CURRENT LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE LEVELS OF PRODUCTION IN ARTICLE 5 COUNTRIES	WITH CURRENT PRODUCTION PLUS ALLOWABLE PRODUCTION IN NON-ARTICLE 5 COUNTRIES	WITH MAXIMUM ALLOWABLE PRODUCTION IN ARTICLE 5 COUNTRIES AND ALLOWED PRODUCTION IN NON- ARTICLE 5 COUNTRIES
1996	(448)	2,652	97,943	101,043
1997	(630)	2,470	97,761	100,861
1998	(829)	2,271	97,562	100,662
1999	(1,047)	2,053	97,344	100,444
2000	(1,047)	2,053	97,344	100,444
2001	(1,047)	2,053	97,344	100,444
2002	(1,047)	2,053	97,344	100,444
2003	(1,047)	2,053	97,344	100,444
2004	(524)	1,026	97,867	99,417
2005	(524)	1,026	97,867	99,417
2006	0	0	0	0

Footnote:

(1) Shortfalls are indicated in parentheses.