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OPEN-ENDED WORKING GROUP OF THE PARTIES TO
THE MONTREAL PROTOCOL ON SUBSTANCES THAT
DEplete THE OZONE LAYER

Twentieth meeting
Geneva, 11-13 July 2000

SUMMARY OF CONTROL MEASURES UNDER THE MONTREAL PROTOCOL, INCLUDING
THOSE RELATING TO THE BASIC DOMESTIC NEEDS OF ARTICLE 5 PARTIES

Note by the secretariat

The secretariat has prepared the attached summary of control measures, which takes into account all amendments and adjustments to the Montreal Protocol to date.

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Summary of control measures under the Montreal Protocol (updated July 2000)

Annex A – Group I: Chlorofluorocarbons (CFC-11, CFC-12, CFC-113, CFC-114 and CFC-115)

Applicable to production and consumption

Non-Article 5(1) Parties

Base level: 1986
 Freeze: July 1, 1989.
 75 per cent: January 1, 1994.
 reduction
 100 per cent: January 1, 1996 (with possible
 reduction essential use exemptions).

Article 5(1) Parties

Base level: Average of 1995–97
 Freeze: July 1, 1999.
 50 per cent: January 1, 2005.
 reduction
 85 per cent: January 1, 2007.
 reduction
 100 per cent: January 1, 2010 (with possible
 reduction essential use exemptions).

Annex A – Group II: Halons (halon 1211, halon 1301 and halon 2402)

Applicable to production and consumption

Non-Article 5(1) Parties

Base level: 1986
 Freeze: January 1, 1992.
 100 per cent: January 1, 1994 (with possible
 reduction essential use exemptions).

Article 5(1) Parties

Base level: Average of 1995–97
 Freeze: January 1, 2002.
 50 per cent: January 1, 2005.
 reduction
 100 per cent: January 1, 2010 (with possible
 reduction essential use exemptions).

Annex B – Group I: Other fully halogenated CFCs (CFC-13, CFC-111, CFC-112, CFC-211, CFC-212, CFC-213, CFC-214, CFC-215, CFC-216, CFC-217)

Applicable to production and consumption

Non-Article 5(1) Parties

Base level: 1989
 20 per cent: January 1, 1993.

Article 5(1) Parties

Base level: Average of 1998–2000
 20 per cent: January 1, 2003.

reduction

75 per cent: January 1, 1994.
reduction100 per cent: January 1, 1996 (with possible
reduction essential use exemptions).

reduction

85 per cent: January 1, 2007.
reduction100 per cent: January 1, 2010 (with possible
reduction essential use exemptions).**Annex B – Group II: Carbon tetrachloride***Applicable to production and consumption**Non-Article 5(1) Parties*

Base level: 1989

85 per cent: January 1, 1995.
reduction:100 per cent: January 1, 1996 (with possible
reduction essential use exemptions).*Article 5(1) Parties*

Base level: Average of 1998–2000

85 per cent: January 1, 2005.
reduction100 per cent: January 1, 2010 (with possible
reduction essential use exemptions).**Annex B – Group III: 1,1,1-trichloroethane (methyl chloroform)***Applicable to production and consumption**Non-Article 5(1) Parties*

Base level: 1989

Freeze: January 1, 1993.

50 per cent: January 1, 1994.
reduction100 per cent: January 1, 1996 (with possible
reduction essential use exemptions).*Article 5(1) Parties*

Base level: Average of 1998–2000

Freeze: January 1, 2003.

30 per cent: January 1, 2005.
reduction

70 per cent: January 1, 2010.

100 per cent: January 1, 2015 (with possible
reduction essential use exemptions).**Annex C – Group I: HCFCs***Applicable to production and consumption*

Non-Article 5(1) Parties: Consumption

Article 5(1) Parties: Consumption

Base level: 1989 HCFC consumption + 2.8 per cent of 1989 CFC consumption.

Base level: 2015

Freeze: 1996.

Freeze: January 1, 2016.

35 per cent: January 1, 2004.
reduction

100 per cent: January 1, 2040.
Reduction

65 per cent: January 1, 2010.
reduction

90 per cent: January 1, 2015.
reduction

99.5 per cent: January 1, 2020, and thereafter,
reduction consumption restricted to the servicing of refrigeration and air-conditioning equipment existing at that date.

100 per cent: January 1, 2030.
reduction

Non-Article 5 (1) Parties: Production

Article 5(1) Parties: Production

Base level: Average of 1989 HCFC production + 2.8 per cent of 1989 CFC production and 1989 HCFC consumption + 2.8 per cent of 1989 CFC consumption.

Base level: Average of production and consumption in 2015.

Freeze: January 1, 2004 at the base level for production.

Freeze: January 1, 2016 at the base level for production.

Annex C – Group II: HBFCs

Applicable to production and consumption

Non-Article 5(1) Parties

Article 5(1) Parties

100 per cent: January 1, 1996 (with possible
reduction essential use exemptions).

100 per cent: January 1, 1996 (with possible essential
reduction use exemptions).

Annex C – Group III: Bromochloromethane

Applicable to production and consumption

Non-Article 5(1) Parties

100 per cent: January 1, 2002 (with possible
reduction essential use exemptions).

Article 5(1) Parties

100 per cent: January 1, 2002 (with possible
reduction essential use exemptions).

Annex E: Methyl bromide

Applicable to production and consumption, amounts used for quarantine and preshipment applications exempted.

Non-Article 5(1) Parties

Base level: 1991

Freeze: January 1, 1995.

25 per cent: January 1, 1999.
reduction

50 per cent: January 1, 2001.
reduction

70 per cent: January 1, 2003.
reduction

100 per cent: January 1, 2005 (with possible critical
reduction use exemptions).

Article 5(1) Parties

Base level: Average of 1995–98

Freeze: January 1, 2002.

20 per cent: January 1, 2005.
reduction

100 per cent: January 1, 2015 (with possible critical
reduction use exemptions).

Annex II**Allowance for production to meet the basic domestic needs of Article 5 Parties following the Beijing Adjustments**

Note:- With regard to the summary below, it appears as though the allowance for production to meet the basic domestic needs of Article 5 Parties continues indefinitely after the date of the phase out (e.g. for Article 5 Parties in the case of Annex A substances; for both Article 5 and non-Article 5 Parties in the case of Annex B Group II and III substances). However, no Party can consume controlled substances, except for permitted essential (or critical) uses, after the dates of phase-out for both Article 5 and non-Article 5 Parties. Hence, no Party can produce controlled substances after such dates, except for essential uses.

Annex A – Group I : CFCs

<i>Non-Article 5 Parties</i>		<i>Article 5 Parties</i>	
Base level:	Production in 1986.	Base level:	Average of production for 1995 - 1997
January 1, 1992	10 per cent of base level.	July 1, 1999	10 per cent of base level.
January 1, 1996	15 per cent of base level until 28 July 2000 (date of entry into force of the Beijing Adjustments).		
New base level for basic domestic needs: (effective July 28, 2000)	Annual average production for satisfying basic domestic needs of Article 5 Parties for the period 1995 to 1997 inclusive.	January 1, 2005	10 per cent of base level.
July 28, 2000	100 per cent of new base level for satisfying basic domestic needs until end of 2002.	January 1, 2007	10 per cent of base level.
January 1, 2003	80 per cent of new base level.	January 1, 2010	15 per cent of base level.
January 1, 2005	50 per cent of new base level.		
January 1, 2007	15 per cent of new base level.		
January 1, 2010	Zero.		

Annex A – Group II: Halons

<i>Non-Article 5 Parties</i>	<i>Article 5 Parties</i>
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Base Level:	Production in 1986.		
January 1, 1992	10 per cent of base level.		
January 1, 1994	15 per cent of base level until July 28, 2000.	Base level:	Average of production for 1995 – 1997.
New base level for basic domestic needs (effective July 28, 2000)	Annual average production for satisfying basic domestic needs of Article 5 Parties for the period 1995 to 1997 inclusive.	January 1, 2002	10 per cent of base level.
July 28, 2000	15 per cent of base level until 1 January 2002.		
After January 1, 2002	100 per cent of new base level.		
January 1, 2005	50 per cent of new base level.	January 1, 2005	10 per cent of base level.
January 1, 2010	Zero.	January 1, 2010	15 per cent of base level.

Annex B – Group I: Other fully halogenated CFCs

Non-Article 5 Parties

Article 5 Parties

Base level:	Production in 1989.		
January 1, 1993	10 per cent of base level.	Base level:	Average of production for 1998 – 2000.
New base level for basic domestic needs (effective July 28, 2000)	Annual average production for basic domestic needs for the period– 1998 to 2000	January 1, 2003	10 per cent of base level.
July 28, 2000	15 per cent of base level until 1 January 2003.	January 1, 2007	10 per cent of base level.
After January 1, 2003	80 per cent of the new base level.	January 1, 2010	15 per cent of base level.
January 1, 2007	15 per cent of the new base level.		
January 1, 2010	Zero		

Annex B – Group II: Carbon tetrachloride

Non-Article 5 Parties

Base level:	Production in 1989.
January 1, 1995	10 per cent of base level production.
January 1, 1996	15 per cent of base level

Article 5 Parties

Base level:	Average of production for 1998 – 2000.
January 1, 2005	10 per cent of base level.
January 1, 2010	15 per cent of base level

Annex B- Group III 1,1,1-trichloroethane (methyl chloroform)

Non-Article 5 Parties

Base level:	Production in 1989.
January 1, 1993	10 per cent of base level.
January 1, 1996	15 per cent of base level.

Article 5 Parties

Base level:	Average of production for 1998-2000.
January 1, 2003	10 per cent of base level.
January 1, 2004	10 per cent of base level.
January 1, 2015	15 per cent of base level.

Annex C – Group I: HCFCs

Non-Article 5 Parties

Base Level:	Average of 1989 HCFC production + 2.8% of 1989 CFC production and 1989 HCFC consumption +2.8% of 1989 CFC consumption.
January 1, 2004	15 per cent of base level.

Article 5 Parties

Base level:	Average of production and consumption in 2015.
January 1, 2016	15 per cent of base level.

Annex E: Methyl bromide

Non-Article 5 Parties

Article 5 Parties

Base level:	Production in 1991.	No additional production allowed for basic domestic needs.
January 1, 1995	10 per cent of base level until July 28, 2000.	
New base level for basic domestic needs (effective July 28, 2000)	Annual average production for basic domestic needs of Article 5 Parties for the period 1995 to 1998 inclusive.	
July 28, 2000	10 per cent of base level until January 1, 2002.	
January 1, 2002	Average production for basic domestic needs for the period 1995 to 1998 inclusive.	
January 1, 2005	80 per cent of new base level.	
January 1, 2015	Zero.	