

APPENDIX K

FY 2000 REPORT TO CONGRESS ON THE USE OF OZONE DEPLETING SUBSTANCES

Ozone is a bluish gas that is harmful to breathe. Nearly 90 percent of the Earth's ozone is in the stratosphere, which is referred to as the ozone layer. Ozone is formed naturally in the atmosphere by a photochemical reaction; while a major air pollutant in the lower atmosphere, it is a beneficial component of the upper atmosphere. Ozone absorbs a band of ultraviolet radiation called UVB that is particularly harmful to living organisms. The ozone layer prevents most UVB from reaching the ground.

Ozone depleting substances are those compounds that contribute to stratospheric ozone depletion. Ozone depleting substances include CFCs, hydrochlorofluorocarbons (HCFCs), halons, methyl bromide, carbon tetrachloride, and methyl chloroform. These substances are generally stable in the troposphere (the region of the atmosphere closest to the Earth) and only break down under intense ultraviolet light in the stratosphere (the region of the atmosphere directly above the troposphere). When they break down, they release chlorine or bromine atoms, which then deplete ozone.

As defined in section 602 of the Clean Air Act, a class I substance is any chemical with an ozone-depleting potential of 0.2 or greater. Ozone-depleting potential is a number that refers to the amount of ozone depletion a substance can cause. Class I substances, including CFCs, carbon tetrachloride, methyl chloroform, methyl bromide, and HCFCs, have the highest potential to cause ozone depletion.

The National Defense Authorization Act of FY 1993 (Public Law 102-484) directed DoD to establish a policy on procurements that require the use of ozone depleting substances in the procurement activities. This appendix summarizes DoD's progress in FY 2000 in reducing the number of new contracts awarded that require the use of ozone depleting substances. It also includes information on the number of existing contracts that have been successfully modified to delete any previously existing requirements for ozone depleting substances. FY 2000 is the final year that DoD must report on the use of ozone depleting substances.

FY 2000 REPORT TO CONGRESS ON THE USE OF OZONE DEPLETING SUBSTANCES

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SUMMARY — DEPARTMENT OF DEFENSE

New Contracts Awarded in CY 2000

Class I ODS	# of Contracts	Class I ODS	# of Contracts
CFC-11		CFC-112	
CFC-12	1	CFC-211	
CFC-113	1	CFC-212	
CFC-114	14	CFC-213	
CFC-115		CFC-214	
CFC-13		CFC-215	
CFC-111		CFC-216	
CFC-217		Halon-1211	3
Halon-1301	3	Halon-2402	
Carbon Tetrachloride		Methyl Chloroform	
Halon-1202		Halon-1011	
Methyl Bromide		R-500	
R-502	1	R-503	
Di/Trichloromethane			

Existing Contracts

Number of existing contracts reviewed this year: 6

Number of existing contracts modified to delete the requirement for Class I ODSs: 1

**NEW CONTRACTS — DEPARTMENT OF DEFENSE
CLASS I OZONE DEPLETING SUBSTANCES**

For the period 01 January 2000 – 31 December 2000

Program	Class I ODS	Estimated Quantity (lbs.)
F-15 Aircraft Procurement	Halon-1301	10
C-130J Aircraft Procurement	Halon-1211	2,183
Vance Air Force Base Aircraft Maintenance and Base Operations Support	CFC-12	7
	CFC-113	65
	CFC-502	2
	Halon-1211	112
	Halon-1301	0
Joint STARS Aircraft Support	CFC-114	27
	Halon-1211	73
	Halon-1301	23
Submarine Atmospheric Analyzing System	CFC-114	<1
Submarine Air Conditioning Overhauls	CFC-114	1200

**EXISTING CONTRACTS — DEPARTMENT OF DEFENSE
CLASS I OZONE DEPLETING SUBSTANCES**

For the period 01 January 2000 – 31 December 2000

Program	Contractor	Contract #	Class I ODS	Application	Substitutes Evaluated	Quantity Class I ODS Used (lbs.)
Facilities Management	PA&E ¹	Classified	R-11	Refrigeration	n/a	700
			R-502	Freezer	n/a	11
	LMC FSS ²	NMA401-98-C-2727	Halon-1301	Fire suppression	n/a	0
			R-11	Refrigeration	n/a	0
			R-12	Refrigeration	n/a	30
	Chugach	NMA401-99-C-0014	Halon-1301	Fire suppression	n/a	610
R-11			Refrigeration	n/a	0	
C-130J Aircraft Procurement	Lockheed Martin	F33657-95-C-2055	Halon-1211	Fire suppression	HFC-125	2,183
B-2 Aircraft Support	Northrop Grumman	F33657-99-D-0028	1,1,1 Trich	Solvent	MEK	12
			CFC-113	Solvent	Petroleum Ether	44
			Halon-1301	Fire suppression	n/a	60
Peacekeeper ICBM Maintenance	Boeing	F42610-99-D-0006	CFC-12	Refrigeration	n/a	500
			CFC-113	Solvent	n/a	100

1 - PA&E is Pacific Architects and Engineers Inc.

2 - LMC FSS is Lockheed Martin Contract Facilities Support Services



SUMMARY — DEPARTMENT OF THE ARMY

New Contracts Awarded in CY 2000

Class I ODS	# of Contracts	Class I ODS	# of Contracts
CFC-11		CFC-112	
CFC-12		CFC-211	
CFC-113		CFC-212	
CFC-114		CFC-213	
CFC-115		CFC-214	
CFC-13		CFC-215	
CFC-111		CFC-216	
CFC-217		Halon-1211	
Halon-1301		Halon-2402	
Carbon Tetrachloride		Methyl Chloroform	
Halon-1202		Halon-1011	
Methyl Bromide		R-500	
R-502		R-503	
Di/Trichloromethane			

Existing Contracts

Number of existing contracts reviewed this year: 0

Number of existing contracts modified to delete the requirement for Class I ODSs: 0

**NEW CONTRACTS — DEPARTMENT OF THE ARMY
CLASS I OZONE-DEPLETING SUBSTANCES**

For the period 01 January 2000 - 31 December 2000

Program	Class I ODS	Estimated Quantity (lbs.)
None		

**EXISTING CONTRACTS — DEPARTMENT OF THE ARMY
CLASS I OZONE DEPLETING SUBSTANCES**

For the period 01 January 2000 - 31 December 2000

Program	Contractor	Contract #	Class I ODS	Application	Substitutes Evaluated	Quantity Class I ODS Used (lbs.)
None						

SUMMARY — DEPARTMENT OF THE NAVY

New Contracts Awarded in CY 2000

Class I ODS	# of Contracts	Class I ODS	# of Contracts
CFC-11		CFC-112	
CFC-12		CFC-211	
CFC-113		CFC-212	
CFC-114	13	CFC-213	
CFC-115		CFC-214	
CFC-13		CFC-215	
CFC-111		CFC-216	
CFC-217		Halon-1211	
Halon-1301		Halon-2402	
Carbon Tetrachloride		Methyl Chloroform	
Halon-1202		Halon-1011	
Methyl Bromide		R-500	
R-502		R-503	
Di/Trichloromethane			

Existing Contracts

Number of existing contracts reviewed this year: 0

Number of existing contracts modified to delete the requirement for Class I ODSs: 1

**NEW CONTRACTS — DEPARTMENT OF THE NAVY
CLASS I OZONE-DEPLETING SUBSTANCES**

For the period 01 January 2000 - 31 December 2000

Program	Class I ODS	Estimated Quantity (lbs.)
Submarine Atmospheric Analyzing System	CFC-114	<1
Submarine Air Conditioning Overhauls	CFC-114	1200

**EXISTING CONTRACTS — DEPARTMENT OF THE NAVY
CLASS I OZONE DEPLETING SUBSTANCES**

For the period 01 January 2000 - 31 December 2000

Program	Contractor	Contract #	Class I ODS	Application	Substitutes Evaluated	Quantity Class I ODS Used (lbs.)
None						

SUMMARY — DEPARTMENT OF THE AIR FORCE

New Contracts Awarded in CY 2000

Class I ODS	# of Contracts	Class I ODS	# of Contracts
CFC-11		CFC-112	
CFC-12	1	CFC-211	
CFC-113	1	CFC-212	
CFC-114	1	CFC-213	
CFC-115		CFC-214	
CFC-13		CFC-215	
CFC-111		CFC-216	
CFC-217		Halon-1211	3
Halon-1301	3	Halon-2402	
Carbon Tetrachloride		Methyl Chloroform	
Halon-1202		Halon-1011	
Methyl Bromide		R-500	
R-502	1	R-503	
Di/Trichloromethane			

Existing Contracts

Number of existing contracts reviewed this year: 3

Number of existing contracts modified to delete the requirement for Class I ODSs: 0

**NEW CONTRACTS — DEPARTMENT OF THE AIR FORCE
CLASS I OZONE-DEPLETING SUBSTANCES**

For the period 01 January 2000 – 31 December 2000

Program	Class I ODS Used	Estimated Quantity (lbs.)
F-15 Aircraft Procurement	Halon-1301	10
C-130J Aircraft Procurement	Halon-1211	2,183
Vance Air Force Base Aircraft Maintenance and Base Operations	CFC-12	7
	CFC-113	65
	CFC-502	2
	Halon-1211	112
	Halon-1301	0
Joint STARS Aircraft Support	CFC-114	27
	Halon-1211	73
	Halon-1301	23

**EXISTING CONTRACTS — DEPARTMENT OF THE AIR FORCE
CLASS I OZONE DEPLETING SUBSTANCES**

For the period 01 January 2000 – 31 December 2000

Program	Contractor	Contract #	Class I ODS	Application	Substitutes Evaluated	Quantity Class I ODS Used (lbs.)
C-130J Aircraft Procurement	Lockheed Martin	F33657-95-C-2055	Halon-1211	Fire Suppression	HFC-125	2,183
B-2 Aircraft Support	Northrop Grumman	F33657-99-D-0028	1,1,1 Trich	Solvent	MEK	12
			CFC-113	Solvent	Petroleum Ether	44
			Halon-1301	Fire Suppression	n/a	60
Peacekeeper ICBM Maintenance	Boeing	F42610-99-D-0006	CFC-12	Refrigeration	n/a	500
			CFC-113	Solvent	n/a	100

SUMMARY — DEFENSE LOGISTICS AGENCY

New Contracts Awarded in CY 2000

Class I ODS	# of Contracts	Class I ODS	# of Contracts
CFC-11		CFC-112	
CFC-12		CFC-211	
CFC-113		CFC-212	
CFC-114		CFC-213	
CFC-115		CFC-214	
CFC-13		CFC-215	
CFC-111		CFC-216	
CFC-217		Halon-1211	
Halon-1301		Halon-2402	
Carbon Tetrachloride		Methyl Chloroform	
Halon-1202		Halon-1011	
Methyl Bromide		R-500	
R-502		R-503	
Di/Trichloromethane			

Existing Contracts

Number of existing contracts reviewed this year: 0

Number of existing contracts modified to delete the requirement for Class I ODSs: 0

**NEW CONTRACTS — DEFENSE LOGISTICS AGENCY
CLASS I OZONE-DEPLETING SUBSTANCES**

For the period 01 January 2000 - 31 December 2000

Program	Class I ODS	Estimated Quantity (lbs.)
None		

**EXISTING CONTRACTS — DEFENSE LOGISTICS AGENCY
CLASS I OZONE DEPLETING SUBSTANCES**

For the period 01 January 2000 - 31 December 2000

Program	Contractor	Contract #	Class I ODS	Application	Substitutes Evaluated	Quantity Class I ODS Used (lbs.)
None						

SUMMARY — DEFENSE THREAT REDUCTION AGENCY

New Contracts Awarded in CY 2000

Class I ODS	# of Contracts	Class I ODS	# of Contracts
CFC-11		CFC-112	
CFC-12		CFC-211	
CFC-113		CFC-212	
CFC-114		CFC-213	
CFC-115		CFC-214	
CFC-13		CFC-215	
CFC-111		CFC-216	
CFC-217		Halon-1211	
Halon-1301		Halon-2402	
Carbon Tetrachloride		Methyl Chloroform	
Halon-1202		Halon-1011	
Methyl Bromide		R-500	
R-502		R-503	
Di/Trichloromethane			

Existing Contracts

Number of existing contracts reviewed this year: 0

Number of existing contracts modified to delete the requirement for Class I ODSs: 0

**NEW CONTRACTS — DEFENSE THREAT REDUCTION AGENCY
CLASS I OZONE-DEPLETING SUBSTANCES**

For the period 01 January 2000 – 31 December 2000

Program	Class I ODS	Estimated Quantity (lbs.)
None		

**EXISTING CONTRACTS — DEFENSE THREAT REDUCTION AGENCY
CLASS I OZONE DEPLETING SUBSTANCES**

For the period 01 January 2000 – 31 December 2000

Program	Contractor	Contract #	Class I ODS	Application	Substitutes Evaluated	Quantity Class I ODS Used (lbs.)
None						

SUMMARY — NATIONAL IMAGERY AND MAPPING AGENCY

New Contracts Awarded in CY 2000

Class I ODS	# of Contracts	Class I ODS	# of Contracts
CFC-11		CFC-112	
CFC-12		CFC-211	
CFC-113		CFC-212	
CFC-114		CFC-213	
CFC-115		CFC-214	
CFC-13		CFC-215	
CFC-111		CFC-216	
CFC-217		Halon-1211	
Halon-1301		Halon-2402	
Carbon Tetrachloride		Methyl Chloroform	
Halon-1202		Halon-1011	
Methyl Bromide		R-500	
R-502		R-503	
Di/Trichloromethane			

Existing Contracts

Number of existing contracts reviewed this year: 3

Number of existing contracts modified to delete the requirement for Class I ODSs: 0

**NEW CONTRACTS — NATIONAL IMAGERY AND MAPPING AGENCY
CLASS I OZONE-DEPLETING SUBSTANCES**

For the period 01 January 2000 – 31 December 2000

Program	Class I ODS	Estimated Quantity (lbs.)
None		

**EXISTING CONTRACTS — NATIONAL IMAGERY AND MAPPING AGENCY
CLASS I OZONE-DEPLETING SUBSTANCES**

For the period 01 January 2000 – 31 December 2000

Program	Contractor	Contract #	Class I ODS	Application	Substitutes Evaluated	Quantity Class I ODS Used (lbs.)
Facilities Management	PA&E	Classified	R-11	Refrigeration	n/a	700
			R-502	Freezer	n/a	11
	LMC FSS	NMA401-98-C-2727	Halon-1301	Fire suppression	n/a	0
			R-11	Refrigeration	n/a	0
			R-12	Refrigeration	n/a	30
	Chugach	NMA401-99-C-0014	Halon-1301	Fire suppression	n/a	610
			R-11	Refrigeration	n/a	0