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This is a "living" list that will be updated on a regular basis. We welcome additions and corrections to this list. For the most up-to-date list, along with a directory of other ozone protection glossaries on the Internet, please visit our web site at www.uneptie.org/ozonaction

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## CONTENTS

### INTRODUCTION

- Key Decisions of the Parties to the Montreal Protocol .............................................. 4

**PUBLIC SECTOR AND NON-PROFIT HALON BANKS** .................................................. 5
  - Australia .................................................................................................................. 5
  - Canada ...................................................................................................................... 6
  - China ......................................................................................................................... 6
  - Denmark ................................................................................................................. 7
  - France ....................................................................................................................... 7
  - India ......................................................................................................................... 8
  - Indonesia ............................................................................................................... 8
  - Japan ....................................................................................................................... 9
  - Malaysia ............................................................................................................... 10
  - Netherlands ......................................................................................................... 10
  - Norway ................................................................................................................. 11
  - Philippines ........................................................................................................... 11
  - Poland ................................................................................................................... 12
  - Russian Republic .................................................................................................. 12
  - South Africa ....................................................................................................... 13
  - Spain .................................................................................................................... 14
  - Sweden ............................................................................................................... 14
  - Switzerland ....................................................................................................... 14
  - United Kingdom .................................................................................................. 15
  - United States ..................................................................................................... 16
  - Venezuela ........................................................................................................... 16

**PRIVATE SECTOR HALON BANKS** ............................................................................. 17
  - ARD (United States; EEC) ................................................................................... 17
  - Control Fire Systems Limited (Canada) ............................................................ 17
  - Dupont (United States) ....................................................................................... 18
  - Halon Banking Systems (United States) ............................................................ 18
  - Remtec International (United States) ................................................................. 19
  - WESCO (United States) ...................................................................................... 20

**MILITARY HALON BANKS** .......................................................................................... 20
  - DoD Ozone Depleting Substances Reserve (United States) ......................... 20

**UNEP’S ON-LINE HALON TRADER (WWW.HALONTRADER.ORG)** ......................... 22

## INTRODUCTION
Halons are extremely damaging ozone depleting substances that are controlled under the Montreal Protocol. These fire-fighting agents were successfully phased out in developed countries by January 1994, and developing countries have committed to freeze their consumption and production by January 2002, reduce by 50% by January 2005 and completely phase out by January 2010. Halon banking is a key component in national halon management and constitutes an important tool in helping to meet the Montreal Protocol compliance targets.

A halon bank is the total quantity of halon existing at a given moment in a facility, organization, country, or region. It includes halon contained in fixed fire protection systems, portable fire extinguishers, mobile fire extinguishers and that kept in storage (i.e. containers). Halon bank management is a method of managing a supply of banked halon. Bank management consists of keeping track of halon quantities at each stage: initial filling, installation, recycling, and storage. Avoiding demand for new (virgin) halons by re-deploying halons from decommissioned systems or non-essential applications to essential uses is a major goal. Halon banks are usually managed by a clearinghouse, i.e. an office that facilitates contact between halon owners and halon buyers.

The halon banking organizations on this list are focal points for anyone interested in obtaining (buying) or exchanging (selling) "banked" halon. They can also provide information concerning their country's national halon management strategies and halon alternatives.

UNEP provides this contact list to support and promote halon banking on the national, regional and international levels and thereby help countries achieve their halon compliance goals under the Montreal Protocol.

**Key Decisions of the Parties to the Montreal Protocol**

At their 4th meeting in November 1992 the Parties to the Montreal Protocol urged all countries to encourage recovery, recycling and reclamation of halons in order to meet the needs of all Parties, particularly developing countries. They also called upon Parties importing recovered or recycled halons to apply, when deciding on the use of those substances, the essential-use criteria to minimise the use of halons in non-essential applications, as set out in the 1991 report of the UNEP Halon Technical Options Committee. At the same meeting, the Parties requested the UNEP's Industry and Environment Programme Activity Centre (now the Division of Technology, Industry and Economics) to function as a clearinghouse for information relevant to international halon bank management. UNEP was requested to liaise with and coordinate its activities with the Implementing Agencies to encourage Parties to provide pertinent information to the clearinghouse.

In November 1998, the Parties reinforced the need for all countries to develop and implement comprehensive strategies to manage halon stocks (Decision X/7). They requested all Parties to "develop and submit to the Ozone Secretariat a national or regional strategy for the management of halons, including emissions reduction and ultimate elimination of their use".


**PUBLIC SECTOR AND NON-PROFIT HALON BANKS**

**AUSTRALIA**

**Name:**
Australian National Halon Bank

**Description:**
Since 1993, DASCEM has managed the Australian National Halon Bank on behalf of the Commonwealth Government - Environment Australia. The Australian National Halon Bank facility in Melbourne stores, reclaims and destroys halons and CFCs. In accordance with the Montreal Protocol, Australia's stock of halon required to meet essential use needs is stored, secured and managed at the Australian National Halon Bank. In February 2000 the Minister for the Environment, Senator Robert Hill, announced that the Australian National Halon Bank would be developed into a regional facility to assist other nations with their halon and other ODS phaseout programs. DASCEM provides halon management expertise in the following areas:

- development of policy
- infrastructure development for national collection and phase out programs
- development and implementation of publicity campaigns and awareness programs
- development of support systems such as pricing and costing systems
- operation of collection, transportation and safe storage systems
- development and management of recycling programs to meet essential use requirements
- provision of recovery, reclamations, recycling and return to country of origin service
- provision of a decanting, bulk storage and destruction service

The Commonwealth Government has issued DASCEM with a 'Used Substances Licence' to import and export halons, CFCs, methyl chloroform and carbon tetrachloride from countries that are signatories to the Montreal Protocol. DASCEM arranges all of the necessary export and import permits, customs clearances, product preparation and transport to enable halons and CFCs to be recycled or safely stored for essential uses or destroyed at the Australian National Halon Bank.

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World Trade Centre  
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Fax +61 3 9649 7410  
Email john.dickenson@dascem.com.au  
Web: http://www.dascem.com.au
CANADA

Name:
Underwriters' Laboratories of Canada

Description:
A voluntary forum working towards the development of strategies for the management of halons in Canada. Underwriters' Laboratories of Canada has established a halon bank management information centre, which covers: recycled halon availability; regulations; contacts for certified servicing/recharging/decommissioning contractors; contacts for suppliers of certified recovery/reconditioning equipment. Underwriters' Laboratories of Canada has prepared two certification documents for the testing and certification respectively of equipment and companies involved in halon servicing/reconditioning.

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Mr. Claude Travers, Project Engineer (French Language)
Underwriters' Laboratories of Canada
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Scarborough, Ontario M1R 3A9
Canada
Tel: (+1) 416 757 3611
Fax: (+1) 416 757 9540
US and Canada: 1-800-INFO ULC
Email: george.unger@ca.ul.com
Web: http://www.ulc.ca

CHINA

Name:
Hong Kong Halon Information Center

Description:
The Government of Hong Kong does not provide halon banking facilities such as collection, processing, storage and sale retired halon. However, the Environmental Protection Department (EDP) of the Government has set up a Halon Information Center (HIC) providing information on companies contractors which may provide services on the deposit of decommissioned halons or purchase or retired halons.

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Halon Information Center
Environmental Protection Department
Air Management Group
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Wanchai, Hong Kong
China
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Fax: +852 2827 8040
Email: vwmwong@epd.gov.hk

DENMARK

Name:
Danish Halon Banking System, Ltd.

Description:
A private company formed by Danish fire protection companies and Skafor, the Danish national organization of non-life insurance companies, designed to recycle halon-1301 during the transitional period up to a total ban on the use of this gas which comes into effect in 1999. "Production" in the form of collection, purification, and distribution of halon-1301 for reuse is carried out by more than a dozen authorized operators across the country.

Contact:
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Mr. Peter Johansen, Chairman of the Board
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FRANCE

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GIFEX

Description:
Not available.

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INDIA

Name:
Indian National Halon Bank Management and Reclamation Facility

Description:
The halon bank is established in Delhi within the Centre for Fire, Explosive & Environment Safety (CFEES), Defence Research & Development Organisation. The Facility has halon recovery and recycling machines for halon-1301, halon-1211 and halon-2402. Services provided include:

- Provide users with training on use and decommissioning of halon systems.
- Provide technical information on test, storage & transportation of halon cylinders to all users.
- Test halon extinguishers and system and assist in identification of essentiality.
- Recover old halon from system cylinder and purify it to ISO standard.
- Test old cylinders and systems for their usability.
- Certify both halon cylinder and gas for reuse.

Users of halon are encouraged to send any technical queries on the Montreal Protocol, halon use and related subjects to the Facility.

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Tel: (+91) 1203810938
Centre for Fire, Explosive and Environment Safety
Brig. S.K. Mazumdar Road,
Timarpur, Delhi - 110054
India
Email: halon_lab@yahoo.co.in

INDONESIA

Name:
Indonesia National Halon Bank

Description:
The Indonesia's NHB recovers, recycles, reclaims and stores halons 1211 and 1301. Operated by the Garuda Maintenance Facility (a government subsidiary), this halon bank serves Indonesian
halon users, including aviation, who need banked halon for their essential uses. This new service is intended to help support compliance with the 2002 halon freeze and future reductions of halons. NHB's organization includes the Environment Ministry, the National Ozone Unit, and major halon users. NHB currently only serves Indonesian users, however they expect to work on a regional or international basis in the future (specifically, they are cooperating with DASCEM in Australia).

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JAPAN

Name:
Halon Recycling and Banking Support Committee, Japan

Description:
An independent, non-profit halon bank organization comprised of representatives of fire equipment manufacturers, and major users/organizations of halon systems.

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KOREA, REPUBLIC OF

Name:
Hanjju Chemical Co., Ltd.
Description:
Not available.

Contact:
Halon Information Center
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Seoul, Korea
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Web: http://www.kita.or.kr/inchon/hanju/

MALAYSIA

Name:
Halon Bank of Malaysia

Description:
The Malaysian Halon Bank is supervised by the Department of Environment and Fire and Rescue Department but managed by Sukiada Engineering Sdn Bhd. Its function is to collect and manage the halon surrendered by owners. The Halon Bank also supplies halon to critical sectors that have been approved by the Department of Environment as an essential user.

Contact:
Mr. Wan Mohd. Nor bin Ibrahim
Malaysia Fire & Rescue Services Department
Malaysia Jalan Maharajalela
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Tel: (+60) 3 8888 0036/39/40
Fax: (+60) 3 8888 0019
Email: pro@bomba.gov.my
Web: www.bomba.gov.my

NETHERLANDS

Name:
Halon Bank of Netherlands (Coöperatieve Vereniging Halonen, U.A.)

Description:
Recycling of halon-1211 and halon-1301. Recycled halon available.

Contact:
Mr Henk A. Kraaij  
Coöperatieve Vereniging Halonen, U.A.  
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3584 BW Utrecht  
The Netherlands  
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Fax: (+31) 30 689 8200  
Email: nlkraai2@nl.cgeyc.com

NORWAY

Name:  
Bergensområdets Interkommunale Renovasjonsseskap DA

Description:  
The national halon bank was established in 1994 with the objectives of traceability of all halon, control of their use, storage, treatment, movement, dismantling of systems, sale, and destruction. One company, Bergen Renholdsverk, Spesialavfallsstasjon Flesland, has been approved by the State Pollution Control Authority (SFT) to conduct national halon banking activities. In principle, as far as Norwegian users are concerned, this is a one way bank - only in, no return to Norwegian users. Ownership of the halon will remain with the original user until sold.

Contact:  
Mr. Arne Iversen, Halon Bank Manager  
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Fleslandsveien 244, 5258 Flesland  
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Email: arne.iversen@bir.as

PHILIPPINES

Name:  
Philippine Halon Bank

Description:  
The Philippine Halon Bank was established through the collaboration of UNDP and the Philippine Department of Environment and Natural Resources (DENR) to recover halon-1211. The halon bank has been fully operational since September 2000 and it has to recover and recycle 25 MT of halon-1211 nationwide. The recovery and recycling facility is operated by the Excelta Trading Corporation, a private sector distributor of fire extinguishers. To date
the bank has only recovered halon from fire extinguishers previously produced by Excelta. Excelta currently provides banked halon to a local telecommunications company.

**Contact:**
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Excelta Trading Corporation  
San Antonio Valley I  
Sucat, Paranaque  
Philippines  
Tel: (+632) 82 58 539 or 82 04 901-02  
Email: algoze@phil-ozone-desk.gov.ph

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**POLAND**

**Name:**  
State Fire Service Headquarters

**Description:**

The State Fire Service Headquarters provides a halon bank management "clearinghouse role, contacting interested parties on the national and international levels (other European halon banks and UNEP DTIE). There is no national physical halon storage system in Poland. Major users have their own halon management programs and store recovered halons for their own critical uses. A few fire protection equipment distributing and servicing companies provide service in that context to their clients. They collect and recover halons from clients when switching to alternative solutions, and provide them to other clients, basically for refilling existing systems.

At present Poland has a rather balanced situation. The excess of recovered halons has not been observed on the market. It is foreseen that there will be some shortages of halon-1301 in the near future. However, Poland is an "accessing country" of the European Union and is following EU regulations. With new EU regulations relating to halons, the situation in Poland might change within the next 2 years.

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Email: bpolak@kgpssp.gov.pl

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**RUSSIAN REPUBLIC**
Name: All Russian Research Institute for Fire Protection (VNTIPO)

Description: The halon bank programme is being developed within the Interagency Commission for Ozone Layer Protection at the Russian Federation's Ministry of the Protection of the Environment and Natural Resources.

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SOUTH AFRICA

Name: Halon Bank of Southern Africa

Description: The Halon Bank of Southern Africa was inaugurated in March 1994, following a mandate from the SA Montreal Protocol Working Group for Fire Protection. The Bank was set up as a non-profit organisation under the auspices of the Department of National Health. Membership is open to organisations who are fire equipment vendors, or fire equipment installers, or users or owners of halons, or any parties interested in environmental or fire protection issues. The bank's functions include: manage existing stocks of halon down to zero, advise on the disposal of halons, and assist in locating halons to keep critical systems running. It also acts as a clearing agent for sales of used halon, lists companies that will recycle used halons to a recognised specification, and act as a link between RSA users and halon banks in other countries. Numerous transactions have also been handled for neighbouring countries - hence the name "Halon Bank of Southern Africa".

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Halon Bank of South Africa
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Mr Andrew Greig, Joint Manager  
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Fax: (+27) 11 880 6286  
Email: proproj@mweb.co.za

**SPAIN**

**Name:**  
LPG Halon Bank

**Description:**  
LPG manages and operates stock of halon-1301 which comes from a controlled recovery and recycling of this gas from existing fire fighting systems throughout the Spanish territory. All the stock available has been previously submitted to a chromatography testing performed by the Superior Scientific Researching Center (CSIC) from the Ministry of Science and Technology in Spain. The destination of this stock is to supply halón for essential users on an international scale.

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Halon Management Department  
LPG Técnicas en Extinción de Incendios, S.A.  
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Fax: + 34 93 473 74 92  
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www.lpg.es

**SWEDEN**

**Name:**  
Swedish Environmental Protection Agency

**Description:**  
There will be no centralized halon bank in Sweden. The military will maintain a bank for its own needs. Some companies will arrange a bank operation for their customers.

**Contact:**  
Mrs Catarina Johansson  
Swedish Environmental Protection Agency  
S-106 48 Stockholm  
Sweden
SWITZERLAND

Name:
Swiss Halon Banking System

Description:
The Federal Office of Environmental Protection and the Fire Equipment Manufacturer's Association are cooperating on a clearinghouse that provides fire equipment manufacturers with information on available surplus and reclaimed halon-1301. In addition, the clearinghouse provides similar information to requests for surplus halons from foreign interested parties. Certain export restrictions do apply (Swiss regulations have recently changed and the country is now able to export halons for essential uses in other countries.)

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UNITED KINGDOM

Name:
Halon Users' National Consortium (HUNC)

Description:
A limited company formed by halon users and the fire industry, with the support of the Government. HUNC acts as a clearinghouse for sales of used halons, provides lists of companies who will recycle used halons to specification, advise on the safe handling and disposal of halons, and acts a link between UK users and halon banks in other countries.

Contact:
Mr Brian Dale, Director and General Manager
The Halon Users National Consortium Limited
Global House, College Street, Petersfield
Hants, GU31 4AD United Kingdom
UNITED STATES

Name:
Halon Recycling Corporation (HRC)

Description:
A voluntary, non-profit trade association formed to assist users of halon to inventory and re-deploy the existing bank. HRC will act as a broker for sales of halon-1211 and halon-1301, provide guidelines and procedures for self-determination of essential halon use, provide a list of companies that recycle halon to standard, act as the link between halon users in the U.S. and halon banks in other countries, etc.

Contact:
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2111 Wilson Boulevard
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United States
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Fax: (+1) 703-243-2874
Email: harc96@aol.com
Web: http://www.harc.org

VENEZUELA

Name:
Halon Information Clearinghouse of Venezuela

Description:
Not available

Contact:
Mr. Manuel Valencia Astudillo, President
Fondo Venezolano de Reconversion Industrial y Technologica (FONDOIN)
Caracas
Venezuela
Avenida Libertador, Centro Comercial Los Cedros, piso 5, La Florida
1050 Caracas - Venezuela.
Tel: (+58-212) 7313932, 7312992
PRIVATE SECTOR HALON BANKS

ARD (United States; EEC)

Name:
Alternative Refrigerant Distributors, Inc. (ARD)

Description:
ARD is a private-sector halon bank that obtains and stockpiles reserves of halon-1301, halon-2402 and halon-1211 for critical end users. The company sub-contracts most of the recycling and reclaiming material if needed. ARD also brokers, buys and sells various other gases and inorganic chemicals which are non-halon related. Most of our deals are all international. ARD staff speak various foreign languages and have representative offices in the E.E.C.

Contact:
Mr. Joe Ross, Halon Bank Manager (Nous Parlon Francais y Habalamos Espanol)
Miami, Florida and Representative Office in Paris, France.
Tel: (+1) 786-853-3086
Fax: (+1) 305-553-1841
Email: ardtrades@aol.com
Web: www.ardtrading.com

CONTROL FIRE SYSTEMS LIMITED (Canada)

Name:
Control Fire Systems Ltd. (CFS)

Description:
CFS is an Underwriters' Laboratories of Canada-certified, and Environment Canada-recognized "full service" halon company, with state-of-the-art halon-1301 and halon-1211 recycling equipment, capable of reconditioning halon back to military and/or ISO specifications. CFS is a member of the Board of Directors for HARC (see above) and an active member of the Halon Recycling Corporation. CFS distributes Fike's FM-200 and 3M's CEA-410 fire suppression agents.

Contact:
Mr. Adam T. Richardson, President
Control Fire Systems Ltd.
63 Advance Road, Building "A"
Toronto, Ontario M8Z 2S6
Canada
Tel: (+1) 416-236-2371
Fax: (+1) 416-2367022
Email: arichardson@controlfiresystems.com
Web: http://www.controlfiresystems.com

DUPONT (United States)

Name: DuPont Halon Bank

Description: DuPont has established a halon-1301 bank for internal use only by DuPont owned facilities. DuPont is selling small lots (less than 2,000 lbs.) of excess halon-1301 in system containers as systems are dismantled. This material is in the original system cylinders and has not been recycled. Bids are solicited as small lots become available.

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DuPont Fluoroproducts
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Wilmington, Delaware 19880-0702
United States
Tel: (+1) 302-999 3239
Fax: (+1) 302-999 2816
Email: brian.r.engler@usa.dupont.com
Web: http://www.dupont.com

HALON BANKING SYSTEMS (United States)

Name: Halon Banking Systems (HBS)

Description: Services include:
- Buy/sell halon: HBS buys halon 1301 and 1211, and sells halon-1301 and halon-1211 in bulk or in refills.
- Refill/recharge: HBS, through its network of affiliates, has refill capabilities in various locations. HBS and its affiliates can remove existing system cylinders, check and verify cylinders to code, refill, and re-install.
- Reclaiming: HBS securely stores halon to ASTM Standards to prevent accidental release to the atmosphere.
- Recycling: After reclaiming the Halon HBS recycles to ASTM standards and the requirements of the end users.
- Banking: HBS provides custom banking programs.
• Destruction

**Contact:**
Mr. Don Connor  
Halon Banking Systems (HBS)  
2366 Rose Place  
St. Paul, Minnesota 55113  
United States  
Tel: (+1) 651-604-2785  
Toll Free North America: 800-840-7698  
Fax: (+1) 651-636-0312  
Email: info@halonbankingsystems.com  
Web: [http://www.halonbankingsystems.com](http://www.halonbankingsystems.com)

**REMTEC INTERNATIONAL (United States)**

**Name:**  
RemTec International

**Description:**  
Established in 1986, RemTec International manufactures specialized equipment that reduces the chance of ozone depletion and global warming. RemTec International also reclaims and banks halocarbon products such as CFCs, halons and their alternative replacement agents. RemTec voluntarily participates in the ARI-700 certification program. USEPA lists RemTec International as a refrigerant reclamer under 40 CFR 82.164, and they follow all regulations and laws regarding the safe handling and transportation of ODS. RemTec performs all work according to the Montreal Protocol Treaty and the US Clean Air Act as amended in 1990. RemTec International is a diversified international corporation with operations in the U.S., Canada, Europe and Australia. Its worldwide product and services include: halocarbon banking and reclamation, on-site recovery, separation of cross-contaminated halocarbons, Defender 2000 Reclaiming Systems, MARS - 2000 Bulk Reclaiming Systems, SMART Halocarbon Separation, CPT - Cylinder Piercing Technology, destruction & safe disposal, hydrostatic testing & cylinder re-certification, laboratory testing.

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Email: richard@remtec.net  
Web: [http://www.remtec.com](http://www.remtec.com)
WESCO (United States)

Name: WESCO

Description: WESCO promotes responsible halon management and banking by providing products and services that cover the full range of halon recovery, reclamation and recycling activities. These include: decommissioning halon systems; recycling to international quality standards; system servicing and recharging (on site if necessary); import/export consulting; and long-term halon bank management. WESCO's business is worldwide in scope and is relied on by large companies and organizations in the aerospace, defense, petrochemical, marine, telecommunications, data storage and fire protection industries. WESCO is also a distributor of a full line of fire-fighting foams and dry chemicals with immediate availability.

WESCO is committed to “responsible halon management” and stringently complies with the Voluntary Code of Practice established by the Halon Recycling Corporation as well as the U.S. Environmental Protection Agency’s Guidance for the EPA Halon Emission Reduction Rule (40 CFR Part 82, Subpart H). Since WESCO conducts business in many different countries, compliance with host-country regulations are strictly adhered to.

WESCO is an active member of the Halon Alternatives Research Corporation (HARC) and a Director of HARC’s sister association the Halon Recycling Corporation (HRC). These organizations are in the forefront of the halon replacement and recycling issues and work closely with government agencies on issues involving halon management. WESCO is also a member of the National Fire Protection Association (NFPA) the National Association of Fire Equipment Dealers (NAFED) and the New Jersey Association of Fire Equipment Distributors.

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MILITARY HALON BANKS

DoD OZONE DEPLETING SUBSTANCES RESERVE (United States)
Name:
DoD Ozone Depleting Substances Reserve

Description:
The U.S. Department of Defence (DoD) through its Defense Logistics Agency (DLA) has established an ODS reserve at the Defense General Supply Center (DGSC)/Defence Depot Richmond, Virginia (DDRV). This reserve supports the military services' "mission critical" requirements for refrigerants R-11, R-12, R-114, R-500, R-502 and halons 1201, 1211 and 1301 when commercial sources are not available.

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UNEP’s On-line Halon Trader (www.halontrader.org)

The On-line Halon Trader is a new service provided by UNEP’s halon clearinghouse. It is designed to support national halon banking by facilitating the exchange of halons for critical uses via the World Wide Web.

In the past, clearinghouses were "off-line" and used conventional communication methods for halon banking. Having a web-enabled online halon trading clearinghouse greatly facilitates and expedites the halon exchange transactions by bringing the halon owners and halon buyers closer and make halon bank management more effective.

The On-line Halon Trader is designed for companies that use halons in critical applications, including owners, managers and/or operators of fire protection systems, fire control services and other organizations related to fire protection. It provides a virtual marketplace where persons can match demand with supply.

Through this free service, companies that need halon for critical applications ("halon seekers") will be able to post listings of specific demand in a virtual “marketplace”. Companies or halon banks that can meet this demand with recovered, reclaimed or recycled halon ("halon providers") will be able to respond or post their own listings about halons available for exchange. UNEP provides the platform for this exchange and does not in any manner become party to the transaction between those who seek halons and those who provide halons.

The On-line Halon Trader seeks to promote the responsible management of halons on both sides of halon banking transactions. As part of the terms of service agreed by anyone submitting a listing on the web site, providers of halons agree that the halons are recovered, recycled, reclaimed or banked, and they are not newly-produced ("virgin") halons being sold for the first time. Persons seeking halons who wish to access the listings agree that their organizations have endeavored to reduce, avoid, or eliminate the use of halons to the maximum extent feasible, and are seeking recovered, recycled, reclaimed or banked halons for a critical use.

For more information, visit the site at www.halontrader.org or contact:
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