

# Installed Capacities of Halon 1211 & 1301

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(C.P.S.P.S.)

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الجمهورية اللبنانية  
مركز الدراسات والبرامج القطاعية  
البلدية  
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# Purpose of Pilot Survey

“To identify installed capacities of halon 1211  
and 1301 in all four countries”

# Area of Pilot Survey

Lebanon

Yemen

Bahrain

Qatar

# Activities

Identification of target groups (insurance companies, oil companies, telecommunication co., air traffic control centers).

Set up of a questionnaire for each target group.

Visit of at least five representative locations in each country.

Identification of the halon installed systems and stocks available in each location visited.

Development of a database with the information gathered.

Preparation of a report on the findings.

# Country Particularities /

Accession to the Montreal Protocol in 1994.

Legislation prohibiting the import of halon quite ambiguous.

No phase out legislation.

No controls on monitoring the activities of owners of halon installations.

BEIRUT/LEBANON

Place	Phone	Halon 1211 in kg	Halon 1301 in kg
Beirut International Airport/Fire Station	01-628185	-	-
Port Area-Fire Station		-	-
Beirut Central Fire Station		-	-
SNA Insurance		-	-
Coral Oil (Shell)		-	-
Mobil (Wardieh) co.		-	-
Sanayeh Telephone Station		-	300
Java Fire Protection Co.		2,520	-
Zod Security		22	532
Saad Company		-	-
Solinor	01-862656	456	-
S.O.S.	01-308627	-	-
I.C.I. (Omnichem)		-	-
Middle East Airlines	03-313791	1,750	987
Mac-Corp.	03-777434	1,200	3,300
Ministry of Defence		-	-
<b>Total</b>		<b>5,948</b>	<b>5,119</b>

# Country Particularities //

Accession to the Montreal Protocol in  
1998

Little data gathered yet

No phase out legislation

Awareness campaigns conducted by MOE  
MOE very active.

SANA'AYEMEN

Place	Halon 1211 In kg	Halon 1301 in kg
Hudayda Harbour	-	-
Civil Defence Fire Station	-	-
Yemen Hunt Oil Company	54	4,308
Canadian Occidental Petr.	9	
Yemen Petroleum Co.	-	-
Total Yemen	-	-
Tele. Yemen	174	
F.F. Equipment Maintenance Co.	325	
Security & Safety Co.	600	46,040
Airport- Sana'a	25	
Adban Company	176	
General Hospital of Aden	Nil	450
General Electric Corp./Aden	4	
<b>Total</b>	<b>1,367</b>	<b>50,798</b>



# Country Particularities **///**

Accession to the Montreal Protocol in 1990.

- Good level of data gathering
- Good controls on monitoring the activities of owners of halon installations
- Responsible Fire protection community
- Significant changes made by companies
- Good control done by the MOE

## BAHRAIN

Place	Phone	Halon 1211 in kg	Halon 1301 in kg
NBB (National Bank of Bahrain-Old)	228800 205643	664	505
Garmco (Gulf Aluminium Rolling Mills)	734634	-	11,150
Bahrain University	449283	500	1,100
Arab Banking Corporation HQ	532235 523307	-	1,037
Sulmaniya Medical Center	279561	1,900	145
National Museum	292977 299023	-	1,538
Batelco	884466	-	38,000
Ministry of Finance	530800 526557	276	666
Asry	671111 674200	-	-
GIIC	673311 679273	-	2,399
GPIC	731777 733345	-	-
Banaco	753819 753707	500	140
Bapco	754444 752970	-	3,952
Civil Aviation	321136 329007	2,300	50
Alba	830000 833203	850	12,622
Ministry of Electricity	9615422 734850	1,300	9,000
BDF	651676	-	-
Directorate of Customs & Ports	719222	-	570
Unitor		8	77
Bahrain Medical & Industrial Plant		2,000	0
Bahrain Defence Force (BDF)		2,000	4,000
<b>Total</b>		<b>8,297</b>	<b>86,951</b>

# Country Particularities **IV**

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Accession to the Montreal Protocol  
in 1995

Strict controls on monitoring the  
activities of owners of halon  
installations.

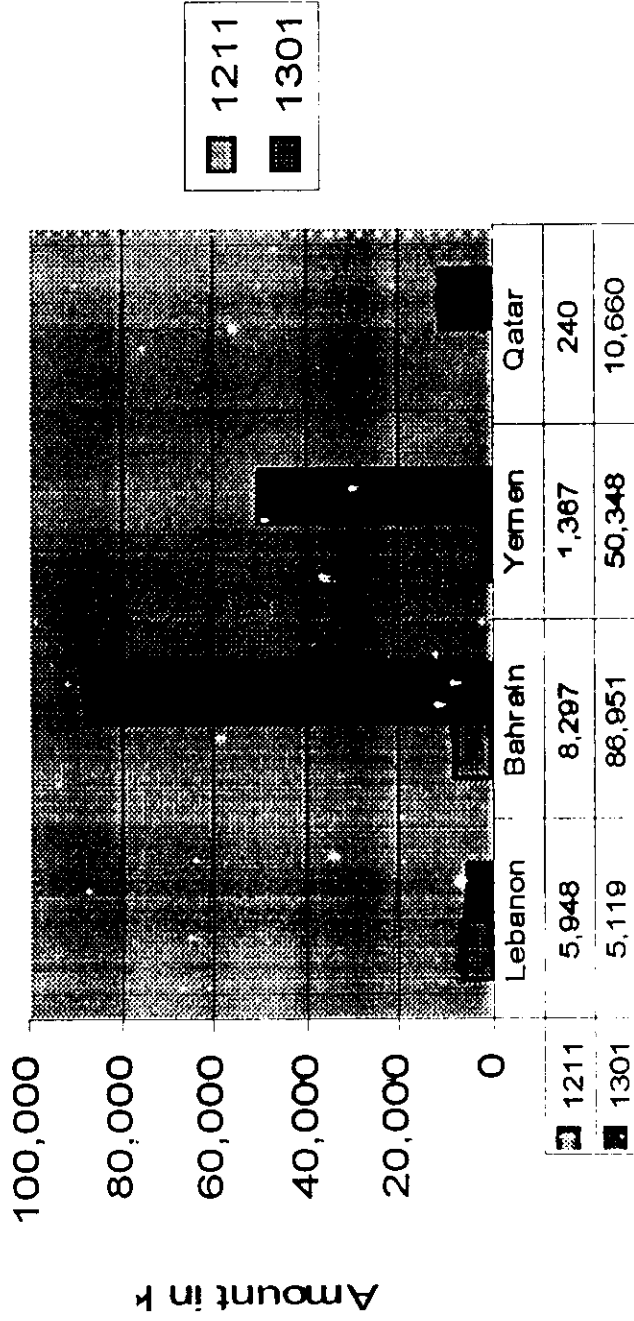
Active MOE

DOHA/QATAR

Place	Halon 1211 in kg	Halon 1301 in kg
International Trading (Chubb)	-	2,000
Civil Defense Authority	-	-
Qatar General Petroleum Corp.	-	-
Delta Fire Protection	240	5,000
Apex Fire Ext. & Trading Est.	-	115
Fire Station Doha Airport	-	-
Shahwani Fire Protection Centre	-	-
IBK Controls	-	-
Libano Suisse Insurance	-	-
Maersk Oil Qatar	-	-
Occidental Petroleum	-	-
Arco Qatar	-	-
Ras Laffan LNG Ltd.	-	3,545
<b>Total</b>	<b>240</b>	<b>10,660</b>

# Survey Results

Total Halon Installed Capacities



Countries

# Major Findings

Governments' decision to stop the import of halon taken in all 4 countries.

Good knowledge of the halon's ozone depletion effect among the fire fighting community and others.

No further steps are taken towards any phase out.

No developed knowledge on the action to be taken following the identification of the stocks of halon (recycling, replacement, etc.)

No clear definition of critical uses.

No centralisation of data nor statistics on the existence of halon.

The private sector's reluctance to provide data.

# Necessary steps

- Formation of a steering committee made up of concerned bodies.
- Set up a schedule to reduce availability of halons annually.
- Reduce unnecessary emissions and uses of halons.
- Switch to alternative fire protection methods when halon use is not "critical".
- Develop halon bank management and recycling procedures.
- Set up appropriate legislation to help phase out movement.

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