OTHER
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DOCUMENT

ULC/ORD-C1058.18-2004

THE SERVICING OF HALON AND CLEAN AGENT EXTINGUISHING SYSTEMS

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K1P 6N7

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UNDERWRITERS' LABORATORIES OF CANADA

ULC/ORD-C1058.18-2004

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FOREWORD

Certification organizations are periodically requested to promptly provide certification services for devices, constructions, materials and systems where Canadian recognized standards do not currently exist or are not entirely applicable. Accordingly, the certification organization utilizes its experience, existing specifications and requirements in related areas, together with assistance from its advisory councils to develop and prepare Other Recognized Documents (ORD's) for use in conducting the necessary tests and evaluation investigation.

Underwriters' Laboratories of Canada has prepared many ORD's, which are consensus documents, in response to requests from, and in conjunction with, industry, code writing bodies, regulatory agencies and others prior to promulgating a certification program. In many instances such documents have become published ULC Standards and subsequently National Standards of Canada. It is the intention of Underwriters' Laboratories of Canada to continue this practice, as appropriate.

Comments on the content of this ORD should be directed to the Head Office of Underwriters' Laboratories of Canada, 7 Underwriters Road, Toronto, Ontario, Canada M1R 3B4.

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REFERENCE PUBLICATIONS

The documents shown below are referenced in the text of this ULC Other Recognized Document (ORD). Unless otherwise stated elsewhere in this ORD such reference shall be considered to indicate the edition and/or revisions of the document available at the date on which this ULC ORD is published.

Document Published by ASTM International
100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA, USA 19428-2959
Telephone: (610) 832-9585
www.astm.org

- ASTM D5632-01 Standard Specification for Halon 1301, Bromotrifluoromethane (CF_3Br)

Document Published by Communications Canada
Canadian Government Publishing, Ottawa, Ontario K1A 0S9

- Ozone-depleting Substances Regulations, SOR/99-7, Canadian Environmental Protection Act, 1999

- Transportation of Dangerous Goods Regulations, SOR/2001-286, Transportation of Dangerous Goods Act, 1992

Document Published by the National Fire Protection Association (NFPA)
1 Batterymarch Park, Quincy, MA, 02169-7471, U.S.A.
Telephone: (617) 770-3000
www.nfpa.org

- NFPA 12A, Standard on Halon 1301 Fire Extinguishing Systems
- NFPA 2001, Standard on Clean Agent Fire Extinguishing Systems

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Document Published by the International Organization for Standardization (ISO)
1, rue de Varembe, Case postale 56, CH-1211 Geneva 20, Switzerland
Telephone: +41 22 749 01 11

- ISO 7201, Fire Protection - Fire Extinguishing Media - Halogenated Hydrocarbons
- ISO 14520-3, Gaseous fire-extinguishing systems -- Physical properties and system design -- Part 3: FC-2-1-8 extinguishant
- ISO 14520-4, Gaseous fire-extinguishing systems -- Physical properties and system design -- Part 4: FC-3-1-10 extinguishant
- ISO 14520-6, Gaseous fire-extinguishing systems -- Physical properties and system design -- Part 6: HCFC Blend A extinguishant
- ISO 14520-7, Gaseous fire-extinguishing systems -- Physical properties and system design -- Part 7: HCFC 124 extinguishant
- ISO 14520-8, Gaseous fire-extinguishing systems -- Physical properties and system design -- Part 8: HCFC 125 extinguishant

- ISO 14520-9, Gaseous fire-extinguishing systems -- Physical properties and system design -- Part 9: HFC 227ea extinguishant,

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- CAN/ULC-532-M90, including Amendment 2, Standard for the Regulation of the Servicing of Portable Fire Extinguishers
- ULC/ORD-C1058.5-2004, Halon and Halocarbon Clean Agent Recovery and Reconditioning Equipment

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THE SERVICING OF HALON AND CLEAN AGENT EXTINGUISHING SYSTEMS

PREFACE

This is the Second Edition of THE SERVICING OF HALON AND CLEAN AGENT EXTINGUISHING SYSTEMS, ULC/ORD-C1058.18-2004.

Only metric SI units of measurement are used in this Document. If a value for measurement is followed by a value in other units in parentheses, the second value may be approximate. The first stated value is the requirement.

1. SCOPE

1.1 These requirements apply to companies involved in the charging, recharging, maintenance, repair, inspection and decommissioning of halon and *clean agent* extinguishing systems and equipment, including the recovering and *reconditioning* of the halon and *halocarbon clean agent*.

1.2 These requirements apply to the servicing of Halon 1301 and *halocarbon clean agent* systems.

1.3 These requirements do not apply to the servicing of carbon dioxide systems or portable fire extinguishers. The servicing of Portable Fire Extinguishers is covered in the Standard for the Regulation of the Servicing of Portable Fire Extinguishers, CAN/ULC-S532.

2. GLOSSARY

NOTE: Terms used in this document that are in *italic* print are defined as follows:

CLEAN AGENT – Electrically non-conducting, volatile, or gaseous fire extinguishant that does not leave a residue upon evaporation.

HALOCARBON CLEAN AGENT – An extinguishing agent that contains as primary components one or more organic compounds containing one or more of the elements fluorine, chlorine, bromine, or iodine.

RECOVERY - The act of removing halon or *halocarbon clean agent* in any condition from fire extinguishing system containers for storage without necessarily testing or processing it in any way.

RECONDITIONING - The act of removing contaminants in recovered halon or *halocarbon clean agent* by single or multiple passes through devices, such as replaceable core filter-driers, that reduce moisture, acidity, oil and particulate matter.

3. CATEGORIES OF SERVICE

3.1 Companies shall operate within one of the following categories:

A Full Service;

B Limited Service;

C Agent *Reconditioning*; or

D Inspection.