

Appendix B: Sample Shipping Procedures for Halon 1301

provided by Control Fire Systems

1. PREPARATION

Have a clear understanding of the cylinder head assembly. Consult your fire service company, or Transport Canada office for assistance if necessary.

Each cylinder must be labeled with a "Class 2" green, hazard label with the PIN # UN 1009 clearly print on it. These labels Must also be affixed to the outside of each cylinder or crate, along with Material Safety Data Sheets.

2. SHIPPING

When preparing the cylinders for shipping, all units must be secured with metal stropping onto hardwood skids. Discharge port must be capped, manual activator removed, and explosive detonators disposed of. This will prevent any Injuries resulting from accidental discharges.

3. TRANSPORTATION

CP Express is our exclusive halon carrier, however, clients my use their preferred company. Orders shipped are to be marked prepaid, unless otherwise agreed upon by C.F.S.. Control Fire Systems shall not be responsible as to condition of goods, or the loss of any gases enroute. It is the responsibility of the shipper to acquire necessary insurance coverage on their shipments.

Bills of Lading are prepared indicating the following:

- Total number of cylinders.
- Total shipment weight overall.
- The type of agent being sent, i.e.
UN 1009 1301 Halon Bromotrifluoromethane.
- This gas is non-flammable.
- The Dangerous Goods Class of 2.2.
- The emergency telephone number 1-800-363-1301.

4. CYLINDER DISPOSAL

All halon cylinder which have been depleted of halon shall be scrapped, and the metal recycled, unless otherwise advised by the client in writing.

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NOTES:
 "PATENT PENDING"

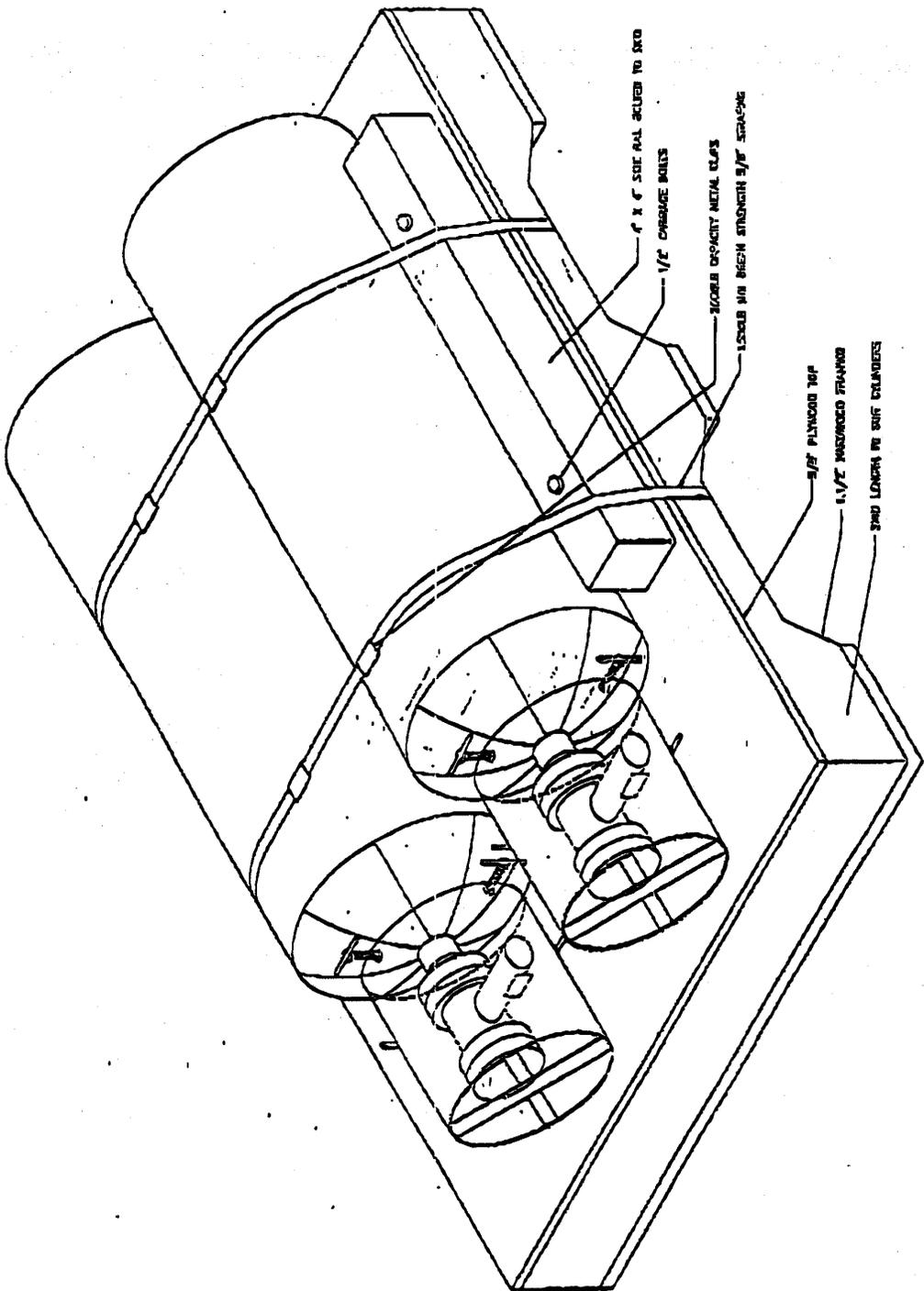
LEGEND :


CONTROL FIRE SYSTEMS
 INC.
 20 201 JONES RD. BIRMINGHAM, ALA.
 35202
 PHONE (205) 988-1111
 FAX (205) 988-1112

MODEL :
SKIDDING METHOD
"HORIZONTAL"

DATE : JAN 8 1985
 DRAWN BY : [unclear]
 CHECKED BY : [unclear]
 DESIGNED BY : [unclear]
 PROJECT NO. :

DRAWING NO. :
FC1050-3
SHEET 1



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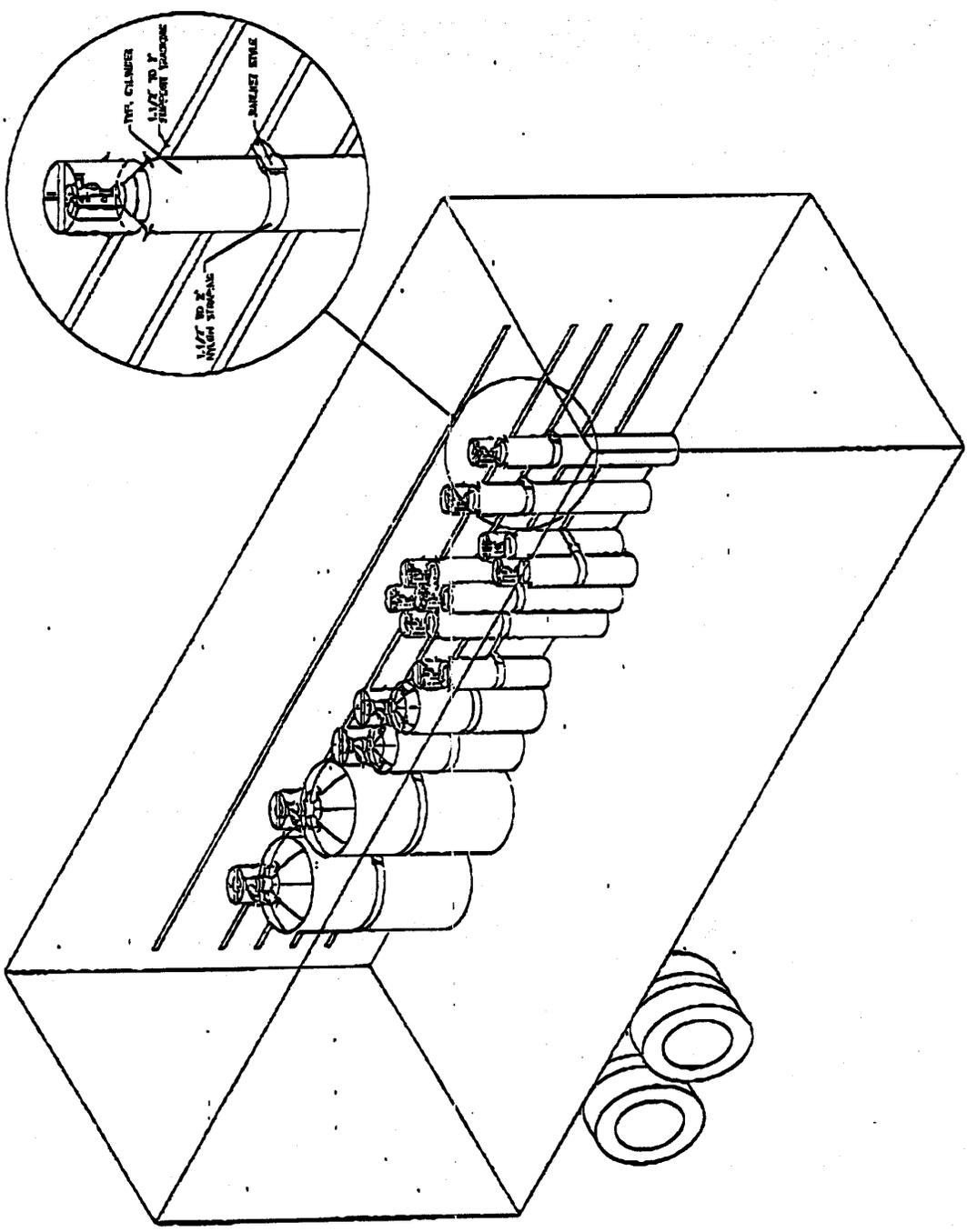
LEGEND:

CONTROL FIRE SYSTEMS



6000 1/2" DIA. 100' HIGH
 100' DIA. 100' HIGH
 100' DIA. 100' HIGH

DRAWING NO. **CARRIER CYLINDER SECURING METHOD "VERTICAL"**
 SCALE: 1" = 10'-0"
 DATE: 10/15/54
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 PROJECT NO. [Number]
 SHEET NO. **1** OF **1**



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NOTES:
 "PATENT PENDING"

LEGEND :

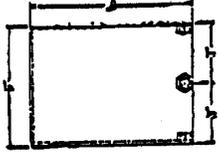
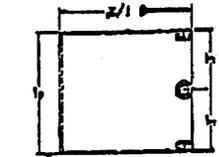
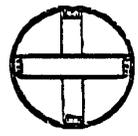
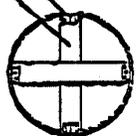
CONTROL FIRE SYSTEMS

 2015 S. GARDNER BLVD. CHICAGO, ILL. 60608
 TEL. 312.341.1111
 FAX. 312.341.1112
 WWW.CFSYSTEMS.COM

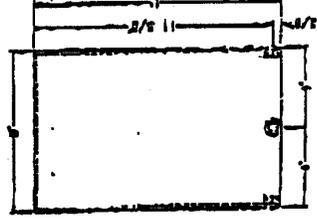
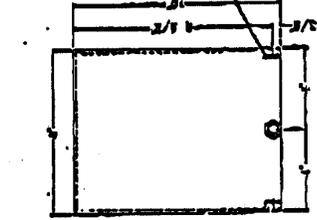
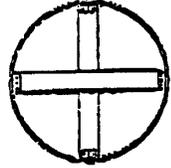
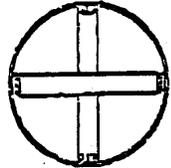
WORKING DRAWING
 CYLINDER HEAD
 CAPPING METHOD

DATE	2015.11.10
SCALE	1:1
DRAWN BY	J. B. SMITH
CHECKED BY	J. B. SMITH
APPROVED BY	J. B. SMITH
REVISION NO.	1
DWG. NO.	FC1000-6
SHEET NO.	1

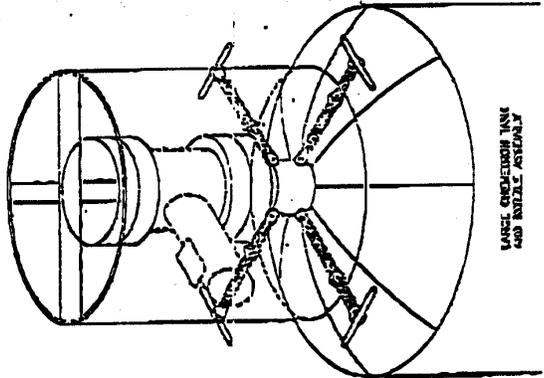
2 INCH STEEL SUPPORTS
 WELDED ON TOP OF PCC
 WELD (4) 1/2" MILTS
 ON INSIDE OF PIPE



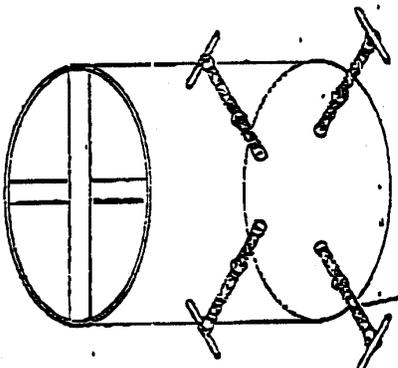
SMALL SIZES



LARGE SIZES



LARGE CYLINDRICAL TANK
 400 INCH DIAMETER



1/2 X 4 C. PCC
 3/4 X 6 S. S. CAP ON TOP OF TANK
 FRAMES CHAIRS

WELD (4) 1/2" MILTS
 PUSH INTO BOTTOM OF PFC

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NOTES:

"PATENT PENDING"

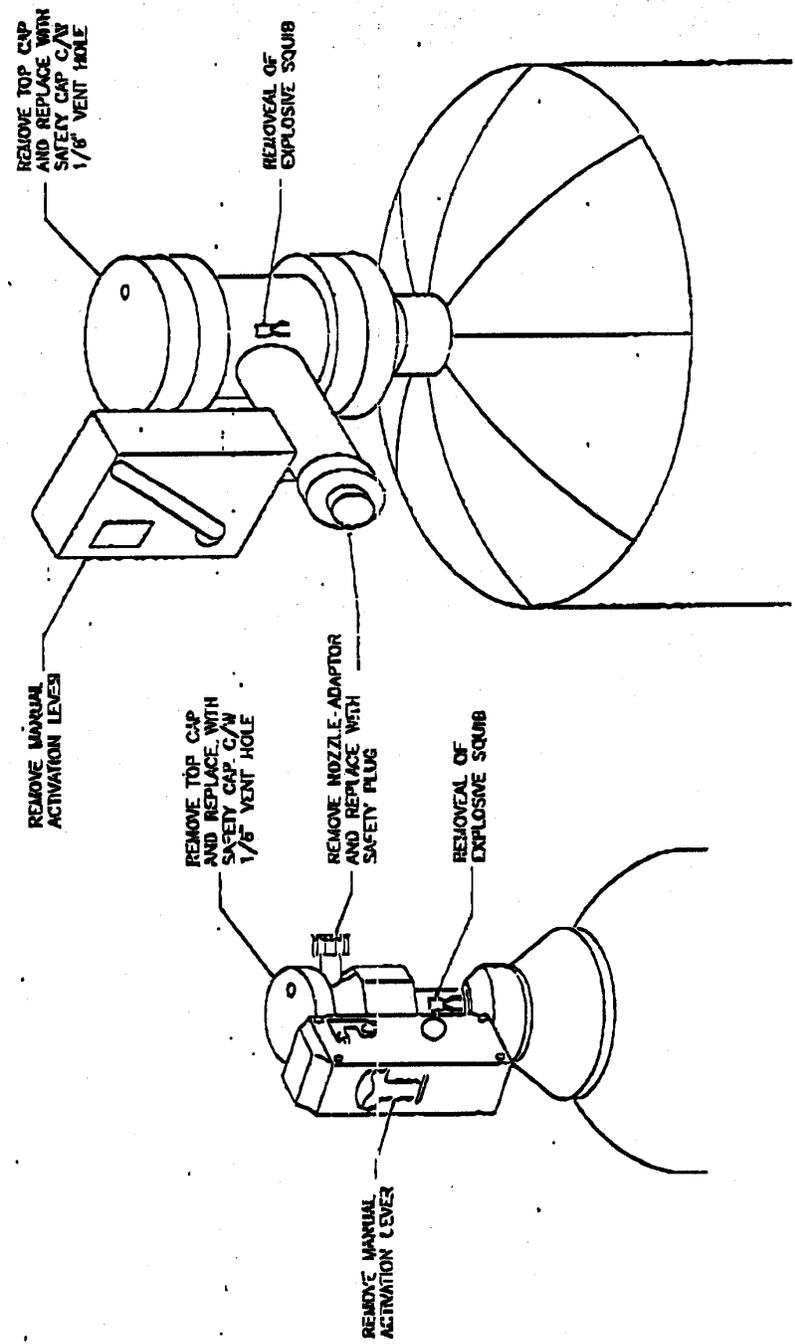
LEGEND:



 THE CONTROL FIRE SYSTEMS
 100 WEST 100th STREET, NEW YORK, N.Y. 10025
 PROJECT #

DRAWING #
CYLINDER HEAD PREPARING METHOD

DATE	NO. OF SHEETS
SCALE	DATE
DESIGNED BY	PROJECT NO.
CHECKED BY	
DRAWING NO. FC1000-5 SHEET 1	



CONTROL FIRE SYSTEMS LTD.

Transportation And Preparation of Halon Cylinders

**CONTROL FIRE SYSTEMS LTD.
63 ADVANCE: RE., BLDG. "A"
TORONTO, ONTARIO M8Z 2S6
TELEPHONE: (416)236-2371
FACSIMILE: (416)233-6814**

Shipper(Name): Address:	Bill of Landing NO: Transit No.:
Consignee(Name) Address:	Carrier(Name): Carrier Tel. No.:
<u>Transport Details</u> This shipment is strictly within the limitations prescribed for: LAND O SEA O AIR O RAIL O <hr style="width: 50%; margin-left: 0;"/> HALON 1301 O HALON 1211 O OTHER O UN1009 UN1974 (LIST)	<u>CAUTION</u> This shipment contains an ozone depleting substance. Exercise extreme care in handling, to prevent release.
	YES N/A
A. Cylinders pressurized with Halon 1211, shall have the safety pin tie wrapped, and properly secured, with the cylinders packaged in the fiber board box , or prepared crates. B. Halon 1301 cylinders shall be transported with originally approved safety devices, such as discharge port cap, complete with pre-drilled vent holes, with all actuators removed and equipped with threaded actuator prevention plugs. C. Material Safety Data sheets, Dangerous Goods Placards 2.2 , and UN Classification Numbers shall be attached to each cylinder, and shall be in accordance with The Transportation of Dangerous Goods Regulations, Part V. D. The halon 1301 cylinders shall be placed on wooden	

skids, with wooden side support rails, and secured with strapping Halon 1301 cylinders strapped in the horizontal position shall not overhang, or extend beyond the perimeter of the skid.

- E. Halon 1301 cylinders, transported in a vertical position, shall be secured to the side rails, on or in a truck, which is designed for this method.
- F. One completed and signed copy of this Transportation and Preparation of Halon Cylinders Document shall accompany each shipment.

Additional Handling Information and Special Instructions:

CHEMICAL EMERGENCY NO. (24 HR.)
Canutec (613) 996-6666

I, hereby declare, and undersign, as the shipper, that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled.

Name.Title of Shipper:

Place and date:

X _____
Signature (Print)

x _____
Signature
(Print)