



SPECIAL PERMIT 1990 REVISION NO. 3

This Special Permit is issued pursuant to the terms of Section 71.6(a) of the Canadian Transport Commission's "Regulations for the Transportation of Dangerous Commodities by Rail" to authorize the shipment of certain non-flammable gases in CTC 4L cylinders by rail in Canada, under conditions prescribed herein, and does not relieve any shipper or carrier from compliance with any requirement of the Commission's Regulations, except as specifically stated.

1. BASIS

Letter dated August 4, 1987 from Cryogenic Services Incorporated,
P.O. Box 1312, Canton, Georgia, U.S.A. 30114

2. COMMODITY CLASSIFICATION

Non flammable gas 2.2.

3. COMMODITY NAME

- a) Carbon Dioxide
- b) Nitrous Oxide

4. IDENTIFICATION NUMBER

- a) 2187
- b) 1070

5. REGULATION AFFECTED

73.304.

6. AUTHORIZED SHIPPER

Cryogenic Services Inc., its agents or distributors or customers.

7. PACKAGING DESCRIPTION

CTC specification 4L welded cylinder having a service pressure of 292 psi complying with Cryogenic Services models PLC 160 HP (Drawing 904-1357-160 dated September 20, 1982), PLC 180 HP (Drawing 904-1874 dated February 23, 1984) and PLC 275 HP (Drawing 904-1819-275 dated October 24, 1983) and calculations on file with the Director of Operation.

In addition

- a) The maximum allowable filling density shall be as follows:

<u>Safety Relief Valve</u>	<u>Per cent - Filling Density</u>	
<u>Setting-psig</u>	CO ₂	N ₂ O
350	97.0	94.0

- b) Each cylinder shall be protected with at least one safety relief valve and at least one frangible disc complying with Sections 73.34(d) and 73.304(b)(2) of the CTC Regulations. The relieving capacity of the safety devices shall be in accordance with CGA Pamphlet S1.1 on a bare tank basis.

8. SPECIAL REQUIREMENTS

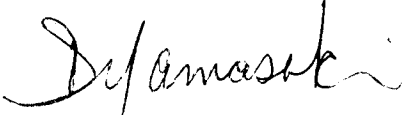
- a) Each cylinder must be plainly marked on both sides near the middle in letters at least two inches high on a contrasting background, "CTC SP 1990" or "CTC/DOT-E 8938".
- b) The temperature of the liquids at time of loading must not exceed 0°F (291 psig) for carbon dioxide and +4°F (291 psig) for nitrous oxide for a maximum transportation period not to exceed 120 hours.

9. REPORTING REQUIREMENTS

The Director of Operation shall be advised of any incident involving loss of contents and shall be provided with a summary of experience before the expiration date of the Special Permit.

10. EXPIRY DATE

August 27, 1988.


Director of Operation
Railway Transport Committee

Issued at Hull, Quebec
this 27th day of August, 1987.

Address all inquiries to:

Director of Operation, RTC
Canadian Transport Commission
25 Eddy Street, 14th Floor
Hull, Quebec
K1A 0N9



SPECIAL PERMIT 1990, REVISION NO. 4


In accordance with Section 71.6(a) of the Regulations for the Transportation of Dangerous Commodities by Rail, Special Permit 1990 is hereby extended by changing the following:

10. EXPIRY DATE

August 27, 1989.

This extension applies only to the party(s) listed below based on the application(s) dated July 13, 1988 in accordance with Section 71.6(b) (3) of the said Regulations. All other terms of the Special Permit remain unchanged. This extension forms part of the Special Permit and must be attached to it.

Party(s): Cryogenic Services Incorporated, its agents or distributors, or customers.


Director of Operation
Rail Safety Branch

Issued at Hull, Quebec
this 27th day of August, 1988

Address all inquiries to:

Director of Operation
Rail Safety Branch
Operatins Directorate
National Transportation Agency
Hull, Quebec
K1A 0N9