



Transport Canada Transports Canada



Certificate of Registration

of a Highway or Portable Tank Design for the Transportation of Dangerous Goods

TCRN

Pursuant to the application on file with Transport Canada, the Transportation of Dangerous Goods Regulations, and section 8.3.3 of CSA Standard B620-03 (Highway Tanks and Portable Tanks for the Transportation of Dangerous Goods),

Cryogenic Vessel Alternatives

is granted a Transport Canada Registration Number (TCRN).

COMPANY NAME: Cryogenic Vessel Alternatives
COMPANY ADDRESS: 9528 Warren Road, P.O. Box 1230, Mont Belvieu, TX, 77580, United States
FILE NUMBER: ASD 4067-34-11-0450

CORPORATE OFFICER RESPONSIBLE FOR COMPLIANCE:

NAME: Hector Villarreal
TITLE: Director

TANK DESCRIPTION: TC 331 trailer, Model CVA-15K-325-CO2-Queen transporting refrigerated liquid carbon dioxide, 2235.2mm (88") internal diameter, 13627mm (536.5") maximum seam to seam length, 56775L (15000USG) maximum tank capacity, 689.5kPa (325psig) MAWP @ -29.5-46C (-20-115F), main tank drawing, CVA90517GA (rev 0), assembly drawing CA1000 (rev K)

DESIGNATED AGENCY FOR DESIGN REVIEW: Royal & SunAlliance
DESIGNATED AGENCY'S REPORT NUMBER: RSA-2009-212 dated 24 Jun 09

LIMITATIONS TO THIS CERTIFICATE:


This Transport Canada Registration Number (TCRN) is only applicable to the facility and for the tank design indicated above.

EXPIRY DATE OF THIS REGISTRATION:

Unless otherwise notified, this Transport Canada Registration Number is valid until the date of expiry indicated below. Any change in design shall require further review of the design by a Designated Agency for Design Review, as per CSA B620-03 section 8.3.4.

DATE OF ISSUE: 08 July 2009
DATE OF EXPIRY: 08 July 2019

TRANSPORT CANADA REGISTRATION NUMBER: Z-05-450-24-09


Jacques Savard, Director
Regulatory Affairs Branch
Transport Dangerous Goods Directorate

Canada



Transport
Canada
Safety and Security

Transport Dangerous Goods
Directorate
Place de Ville, Tower C, 9th Floor
330 Sparks Street
Ottawa, Ontario
K1A 0N5

Transports
Canada
Sécurité et sûreté

Direction générale du transport
des marchandises dangereuses
Place de Ville, Tour C, 9^e étage
330, rue Sparks
Ottawa, Ontario
K1A 0N5

Your File - votre référence

Our File - notre référence
ASD 4067-34-11-0450

Hector Villarreal
Director
Cryogenic Vessel Alternatives
9528 Warren Road, P.O. Box 1230
Mont Belvieu, TX
77580
United States



Mike Campbell
281-585-1209



DATE: _____

08 July 2009

Subject: Transport Canada Registration Number Z-05-450-24-09

Dear Hector Villarreal:

Further to your request for a Transport Canada Registration Number (TCRN) for your TC 331 trailer, Model CVA-15K-325-CO2-Queen transporting refrigerated liquid carbon dioxide, 2235.2mm (88") internal diameter, 13627mm (536.5") maximum seam to seam length, 56775L (15000USG) maximum tank capacity, 689.5kPa (325psig) MAWP @ -29.5-46C (-20-115F), main tank drawing, CVA90517GA (rev 0), assembly drawing CA1000 (rev K), and receipt of Royal & SunAlliance report no. RSA-2009-212 dated 24 June 2009, we have issued TCRN Z-05-450-24-09 which appears on the attached certificate. For every tank built according to this approved design, the TCRN shall appear on the metal identification plate and on the certificate of compliance.

Only approved drawings shall be used in construction, and any change in design shall require further review of the design in whole or in part, depending on the extent of the change. Please refer to CSA B620-03 section 8.3.4.

Please refer to TCRN Z-05-450-24-09, and to file ASD4067-34-11-0450 in any correspondence related to this design. Do not hesitate to contact me at (613) 998-0516 or by e-mail at marie.quesnelwilliams@tc.gc.ca or Chris Nowak at (613) 993-5022 or by e-mail at chris.nowak@tc.gc.ca should you have any questions.

Sincerely,

Marie Quesnel Williams
Regulatory Affairs Branch