

DIRECTIVE

Movement of Tanks Not Designed for Transportation or Delivery of Propane

Stationary pressure vessels are not designed for use as pressurized transport vessels and MUST NOT be used for that purpose.

In the case of small pressure vessels used as propane consumer tanks, under extenuating circumstances where evacuation of the vessels' content is not feasible, a special provision is made to provide a means of transporting these units with product. A bulletin providing specific guidance on this matter was developed and released in 1991 jointly by Plumbing and Gas Safety Services Branch, Alberta Labour, Transportation Safety Branch, Alberta Transportation, Dangerous Goods Control and Boilers and Pressure Vessels Branch, Alberta Labour. That bulletin is still valid and is attached as part of this Directive.

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MOVEMENT OF TANKS NOT DESIGNED FOR TRANSPORTATION OR DELIVERY OF PROPANE

The following bulletin has been developed jointly by Alberta Labour Plumbing and Gas Safety Services Branch, Alberta Transportation and Utilities Motor Transport Services, Alberta Public Safety Services Dangerous Goods Control, and Alberta Labour Boilers and Pressure Vessels Branch in order to clarify the requirements pertaining to transportation of propane consumer tanks, and to avoid jurisdictional overlaps.

This bulletin references propane consumer tanks from 125 gallon to 1000 gallon water capacity. It is felt that tanks exceeding 1000 gallon water capacity in size are normally used on commercial installations and are equipped with liquid withdrawal fittings for evacuation purposes. These tanks normally would not require transportation containing propane in excess of 5 percent of the tank water capacity.

Transportation of consumer tanks is covered under Clause 11.21.2 of the CAN/CGA - B149.2 - M86 Propane Installation Code. This clause sets forth rules limiting the amount of propane that may be transported to or from a consumer location in a consumer tank to not more than 5 percent of the tank water capacity.

There is also provision under this clause which allows tanks to be transported containing propane up to the maximum filling density of the tank providing that the transporting vehicle is of a design and size acceptable to the authority having jurisdiction. The intent of this provision is to provide a means of transporting tanks with product when under extenuating circumstances evacuation of the tank is not feasible.

The following criteria have been established as guidelines to assist industry in the interpretation and application of Clause 11.21.2.

1. Transportation of Consumer Tanks:

- (i) A tank shall not be transported to a consumer location containing propane in excess of 5 percent of its water capacity.
- (ii) A tank shall not be transported from a consumer location containing propane in excess of 5 percent of its water capacity unless circumstances exist which prohibit the evacuation of product from the tank or by the nature of its location evacuation is deemed unsafe or impractical. In these instances all reasonable measures to minimize the quantity of propane transported shall be taken.

2. Transporting Vehicle

The transporting vehicle and when necessary the towing vehicle shall be capable of accommodating a tank containing propane up to its maximum filling density, and shall be of a design and size to meet compliance with the requirements of the Highway Traffic Act, the Motor Transport Act and the regulations under those acts.

3. Lifting and Securing of Tanks

- (i) The lifting lugs on a tank shall not be used as the means of lifting a tank containing propane in excess of 5 percent of its water capacity.
- (ii) Lifting slings and tank securing straps shall be used and shall be maintained in good repair. Giving consideration to the extremes that they may be subjected to such slings or straps shall be of a size and design capable of lifting and securing a tank and contents up to its maximum filling density. Chains shall not be used as a means to lift or secure tanks.

- (iii) Tank cradles of sufficient size and design to accommodate a tank and contents up to its maximum filling density shall be provided to take the loading or weight off the individual tank support legs and to provide clearance or protection for any valving or equipment located on the bottom of the tank. Cradles will not be required for **Portable Tanks** (see section 6) permanently mounted on skids, wagons or tank trailers.
- (iv) A tank shall be safely secured on the transporting vehicle so as to prevent movement in transit, giving consideration to the sudden stops, starts and changes of direction normal to vehicular operation.

4. Size and Number of Tanks

- (i) The maximum size of a consumer tank transported with propane in excess of 5 percent of its water capacity shall not exceed 1000 USWG.
- (ii) Not more than one tank containing propane in excess of 5% of its water capacity shall be transported on a vehicle at any time.

5. Routes

All reasonable precautions shall be taken to avoid transport through heavily populated or congested areas. Transportation of Dangerous Goods Control Act and regulations and applicable municipal Dangerous Goods restrictions apply.

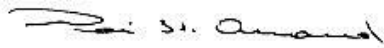
6. Portable Tanks

Portable (baffled) tanks are designed and the fittings are of a type and are so protected that the container may be transported while filled to its maximum filling density. Portable (baffled) tanks are not to be confused with consumer storage tanks which in some instances have been mounted on farm wagons or trailers for ease of movement on site. **Consumer trailer mounted tanks are not designed or constructed to meet the portable tank requirements and transportation of such tanks shall comply with the requirements of this directive.**

Transportation of **Portable Tanks** shall comply with the requirements of **Section 2 Transporting Vehicle** and **Section 3 (i),(ii) and (iv) Lifting and Securing of Tanks.**

Effective June 1, 1991:

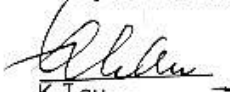
The effective date of June 1, 1991 was established to provide sufficient time for industry notification of the requirements as set out in the subject bulletin.



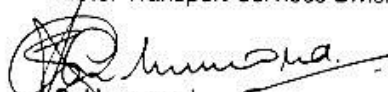
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