



CGA G-19.2—2019
STANDARD FOR NATURAL
GAS TRANSPORTATION
AND TRANSFER

FIRST EDITION

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1 Introduction

This publication provides standards for the safe transfer and transportation of compressed natural gas (CNG) and liquefied natural gas (LNG). This publication addresses filling, transporting, and delivering/dispensing. At a minimum, it covers regulatory compliance, source gas, transportation equipment, equipment inspection, maintenance and repair, operations, and training.

These guidelines are based on applicable regulations and best industry practices. Parties engaging in activities related to the transfer and transportation of natural gas shall perform risk analysis specific to the application and ensure compliance with the appropriate regulatory authorities.

2 Scope

This publication provides general information concerning the transportation and transfer of natural gas. It is intended to provide direction for regulatory reference, safety and health hazards, and equipment intended for the transport and delivery of natural gas and is limited to the equipment that is onboard during transportation. For information regarding the additional equipment required for the specific application, see CGA G-19.1, *Standard for Natural Gas Supply Systems* [1].¹

This publication also gives general knowledge of maintenance, inspection and repair of natural gas transport equipment. It is intended for natural gas users, shippers, fillers, carriers, distributors, safety administrators and anyone seeking an introduction to mobile natural gas applications. More precisely it covers the following:

- transfer from the supply to the transport vehicle;
- transportation between the supply and customer facility;
- transfer from the transport vehicle to a customer facility; and
- ISO tank containers and multiple-element gas containers (MEGCs).

This publication does not cover natural gas vehicular systems or transport of natural gas by rail. The different purity grades for LNG used in transportation versus LNG to be used for pipeline gas supply are not addressed in this publication.

3 Definitions

For the purpose of this publication, the following definitions apply.

3.1 Publication terminology

3.1.1 Shall

Indicates that the procedure is mandatory. It is used wherever the criterion for conformance to specific recommendations allows no deviation.

3.1.2 Should

Indicates that a procedure is recommended.

3.1.3 May

Indicates that the procedure is optional.

3.1.4 Will

Used only to indicate the future, not a degree of requirement.

3.1.5 Can

Indicates a possibility or ability.

¹ References are shown by bracketed numbers and are listed in order of appearance in the reference section.