



**CGA P-21–2021
GUIDELINE FOR THE
DEVELOPMENT OF PRE-TRIP
INSPECTION CHECKLIST AND
REPORTS FOR MC-338, TC-338,
CGA-341, AND TC-341
CARGO TANKS**

FIFTH EDITION

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NOTE—Technical changes from the previous edition are underlined.

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1 Introduction

This publication provides information to assist in the development of inspection checklists and reports for the MC-338, TC-338, CGA-341, and TC-341 insulated cargo tanks used in the transportation of cryogenic liquids.

In Title 49 of the U.S. *Code of Federal Regulations* (49 CFR) Part 396.11, the U.S. Department of Transportation (DOT) Federal Highway Administration requires that the driver of a motor vehicle prepare a report at the completion of each day's work [1].¹ At a minimum, the report shall cover the following vehicle parts and accessories:

- service brakes including trailer brake connections;
- parking (hand) brake;
- steering mechanism;
- lighting devices and reflectors;
- tires;
- horn;
- windshield wipers;
- rear vision mirrors;
- coupling devices;
- wheels and rims; and
- emergency equipment.

49 CFR Part 392.7 further states that no motor vehicle shall be driven unless the driver is satisfied that these parts and accessories are in good working order.

49 CFR Part 396.13 requires that before driving the motor vehicle the driver:

- Is satisfied that the vehicle is in safe operating condition;
- Reviews the last vehicle inspection report; and
- Signs the report, only if defects or deficiencies were noted by the driver who prepared the report, to acknowledge that the driver has reviewed it and that there is a certification that the required repairs have been performed. The signature requirement does not apply to listed defects on a towed unit which is no longer part of the vehicle combination.

In Canada, individual provinces regulate the requirements for pre-trip and post-trip inspections. However, all provinces adhere closely to the requirements of NSC Standard 13, *Trip Inspection*, which are similar to the requirements in 49 CFR [2, 1]. This publication provides a practical way of developing procedures to comply with provincial requirements as they apply to Transport Canada (TC) TC-338 and TC-341 highway tanks. Canadian requirements for highway tanks are found in TC's *Transportation of Dangerous Goods Regulations* (TDG Regulations) and CSA B622, *Selection and use of highway tanks, TC portable tanks, and ton containers for the transportation of dangerous goods, Class 2* [3, 4]. Final pre-trip or post-trip inspection procedures should be checked against the regulations of the province(s) in which the vehicle is to be operated.

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

2 Scope

This publication provides guidance on the preparation of checklist(s) and reports for pre-trip and post-trip inspection of vacuum insulated cargo tanks as well as guidance on driver and vehicle qualification records. The guidelines apply to cargo tanks that comply with MC-338, TC-338, CGA-341, and TC-341 specifications as well as other tankers used to transport cryogenic liquids.

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

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

3.1.5 Can

Indicates a possibility or ability.

4 Inspection

Each motor carrier should prepare a vehicle inspection procedure or checklist to fulfill its specialized needs and to ensure safe operation within DOT or TC regulations. This list or procedure may be used as the required report for the driver's post-trip inspection of the motor vehicle. Before the start of subsequent trips, the vehicle's driver shall refer to the previous post-trip report and maintenance record to verify that any defect or deficiency was corrected.

Before completed checklists are filed, an authorized person should review each checklist to ensure completion of necessary corrective actions. Feedback on corrective actions should be provided to the individual who prepared the checklist.

The following list contains items that should be included in the development of a procedure or checklist for the motorized vehicle coupled to a MC-338, TC-338, TC-341, or CGA-341 cargo tank. This list might not cover all aspects of the applicable requirements:

- Ensure that the driver is of the required age, has the required license, and is physically fit as required by DOT/TC regulations or Canadian provincial or territorial regulations, as applicable, and is legally allowed to drive a commercial motor vehicle;
- Ensure that the driver has the required driving time left in the current shift and possesses an up-to-date log book. Also, verify that all required documents are current and on board, i.e., registration, proof of insurance, etc.;
- Ensure that the driver is properly trained in handling, loading, and unloading product being transported. The driver shall carry a training certificate or have a training certificate in his personnel file;
- Ensure that the driver has operating and emergency procedures in his possession and is instructed in their use;