

CHAPTER 49

TRANSPORTATION OF HAZARDOUS MATERIALS

Authority

N.J.S.A. 27:1A-5, 27:1A-6, Hazardous Materials Transportation Act, P.L. 93-633 (49 U.S.C. 1801 et seq.) and N.J.S.A. 39:5B-25 et seq. (P.L. 1983 c.401).

Source and Effective Date

R.1995 d.74, effective January 12, 1995.
See: 26 N.J.R. 4488(b), 27 N.J.R. 509(a).

Executive Order No. 66(1978) Expiration Date

Chapter 49, Transportation of Hazardous Materials, expires on January 12, 2000.

Chapter Historical Note

Chapter 49, Transportation of Hazardous Materials, was adopted as R.1985 d.123, effective March 18, 1985. See: 16 N.J.R. 2979(a), 17 N.J.R. 712(a). Pursuant to Executive Order No. 66(1978), Chapter 49 was readopted as R.1990 d.156, effective February 8, 1990. See: 22 N.J.R. 21(a), 22 N.J.R. 837(c).

Pursuant to Executive Order No. 66(1978), Chapter 49 was readopted as R.1995 d.74. See: Source and Effective Date. See, also, section annotations.

CHAPTER TABLE OF CONTENTS

SUBCHAPTER 1. GENERAL REQUIREMENTS

- 16:49-1.1 Purpose
- 16:49-1.2 Application
- 16:49-1.3 General requirements
- 16:49-1.4 Penalty for violation of these provisions
- 16:49-1.5 Document availability
- 16:49-1.6 Assistance

SUBCHAPTER 2. ADOPTION OF PORTIONS OF TITLE 49, CODE OF FEDERAL REGULATIONS, BY REFERENCE, AND ADOPTION AND INCORPORATION, BY REFERENCE, OF FEDERAL MOTOR CARRIER SAFETY REGULATIONS WHEN ADOPTED, AMENDED, OR SUPPLEMENTED BY THE FHWA

- 16:49-2.1 Parts adopted by reference

APPENDIX TO THE REGULATIONS REGARDING THE TRANSPORTATION OF HAZARDOUS MATERIALS

SUBCHAPTER 1. GENERAL REQUIREMENTS

16:49-1.1 Purpose

This chapter prescribes the requirements of the New Jersey Department of Transportation ("Department") governing the transportation of hazardous materials in the State of New Jersey. This chapter is adopted to establish com-

prehensive regulation of the shipping, packaging, marking, labelling, placarding, handling, and transportation of hazardous materials, and is established consistent with the regulations issued by the United States Department of Transportation.

Amended by R.1990 d.550, effective November 19, 1990.
See: 22 N.J.R. 2676(a), 22 N.J.R. 3500(c).
Stylistic changes.

16:49-1.2 Application

(a) This chapter shall apply to:

1. Every shipper and motor carrier and its officers, drivers, agents, employees, and representatives involved or in any manner related to the transportation of interstate and/or intrastate commerce, shall comply with and be bound by these regulations or any future amendments, and shall take such measures as are necessary to insure compliance therewith.

2. All officers, agents, representatives, drivers, and employees of shippers and carriers involved or concerned with the management, maintenance, operation or driving of vehicles, shall be conversant and knowledgeable with the rules and regulations set forth in this chapter.

Case Notes

State law governing transportation of hazardous materials preempted enforcement of city resolution. Consolidated Rail Corp. v. City of Bayonne, D.N.J.1989, 724 F.Supp. 320.

16:49-1.3 General requirements

(a) Hazardous materials that do not comply with the requirements of this chapter shall not be offered for transportation, accepted for transportation, or transported.

(b) Vehicles, railroad cars, containers, shipping records, carrier records, and places of origin in the state involved in the transportation of hazardous materials, substances, or wastes are subject to inspection by duly authorized representatives of the Division of State Police as may be necessary to carry out the provisions of N.J.S.A. 39:5B-25 et seq., and the regulations adopted supplementary thereto. Inspections shall be conducted as follows:

1. The Division of State Police, or personnel authorized by the Superintendent of the State Police, may break cargo seals on vehicles during the course of an inspection of the carrier's equipment under this chapter. Under no circumstances will U.S. Postal Service or Department of Defense seals or locks be broken for the purpose of inspecting cargo within any vehicle. If cargo is protected with a seal from any other U.S. Government agency, prior permission shall be obtained from such agency before removal of the seal.

2. Self-locking cargo seals inscribed with the appropriate New Jersey State agency designation and sequential number shall be affixed by the enforcement personnel to replace any cargo seal removed for inspection. In the event that the contents of a vehicle having no cargo seal, or a broken cargo seal, are inspected, the inspecting agency's cargo seal shall not be applied upon completion of the inspection.

3. Seals on tank vehicles shall not be broken except in an emergency situation which poses an immediate hazard to the public, as determined by the State Police, or personnel authorized by the Superintendent of State Police.

4. In the event that a cargo seal is to be broken for the purpose of inspecting the vehicle contents, the owner, operator, driver or yardmaster shall be requested to observe the inspection and sign the inspection report. The signature of a witness, preferably a New Jersey State Police Officer, will also be obtained.

5. Procedures to be used in conducting such inspections shall be as specified by the New Jersey State Police.

(c) No person shall, by marking or otherwise, represent that a container or package for the transportation of hazardous materials is safe, certified, or in compliance with the requirements of the New Jersey Department of Transportation unless such container or package meets the requirements of this chapter.

(d) The New Jersey Department of Transportation will recognize an exemption or renewal thereof issued by the United States Department of Transportation under Section 107, Subpart B of Title 49 subject to review by the New Jersey Department of Transportation. Any person operating under a current, valid exemption or renewal thereof under Section 107 subject to review by the New Jersey Department of Transportation will be deemed to be in compliance with those portions of these regulations to which the exemption applies, provided that the person is complying with the terms of the exemption.

(e) Intrastate carriers and shippers desiring exemptions shall be subject to the same rules and procedures required of interstate carriers and shippers. See Title 49, Code of Federal Regulations, Part 107, Subpart B. Also see N.J.A.C. 16:49-1.3(k) herein.

(f) Whenever the term "interstate" is used in the Federal regulations adopted herein it shall, for the purpose of these regulations, mean and include both "interstate" and "intrastate" transportation in commerce, except where stated otherwise.

(g) The modes of transportation by air, water, or pipeline are governed by other agencies and other Federal regulations and are not under the jurisdiction of the Department. Thus, any portion of the Federal regulations governing transportation of hazardous materials by air, water, or pipeline within Parts 107, 171, 172, 173, 174, 177, 178, 179 and 180 are hereby excluded and not adopted by the Department.

(h) This chapter establishes minimum standards which must be complied with in conjunction with the transportation of hazardous materials. Therefore, in the event of a conflict between this chapter and any other State regulation, the stricter, more stringent standard shall apply and govern. This chapter is intended to complement, and not to limit, those related statutory and regulatory provisions of the New Jersey Department of Environmental Protection regarding hazardous wastes, radioactive materials, spill compensation and control.

(i) This chapter may be amended from time to time by the New Jersey Department of Transportation.

1. The Federal "Hazardous Materials Regulations" referenced herein, are adopted as revised as of September 26, 1994.

2. The Federal Highway Administration, United States Department of Transportation, supplements and amends the Federal Motor Carrier Safety Regulations and the Appendices to the Federal Motor Carrier Safety Regulations on a continuing basis pursuant to the Federal Administrative Procedure Act (5 U.S.C. § 554 et seq.) and authority granted to the Secretary, pursuant to 49 U.S.C. App. § 2505. Supplements and amendments are published as a notice of proposed rulemaking in the Federal Register and are subject to a period of public comment prior to their adoption. Adoption of supplements and amendments by a final rule action, appear in the Federal Register and indicate an effective date for their implementation and enforcement. The Department will hereafter rely upon the notices of proposed rulemaking and final actions published in the Federal Register supplementing and amending the Federal Motor Carrier Safety Regulations and Appendices to the Federal Motor Carrier Safety Regulations as notice to all interested parties and all persons or entities affected by these regulations. Final rule actions supplementing and amending the Federal Motor Carrier Safety Regulations and Appendices to the Federal Motor Carrier Safety Regulations will hereafter be considered as adopted and incorporated, by reference, herein, upon their publication in the Federal Register, and will become effective on the effective date as published in the Federal Register. Any modification, revision, amendment, delay in implementation, or omission by the Department of any Section(s), Subpart(s), or Part(s) of the Federal Motor Carrier Safety Regulations and Appendices to the Federal Motor Carrier Safety Regulations, and all supplements and amendments thereto will be the subject to a separate notice of proposed rulemaking, pursuant to the New Jersey Administrative Procedure Act, N.J.S.A. 52:14B-1 et seq.

(j) If any provision or clause of this chapter is held invalid to any person or circumstance, such invalidity shall not affect other provisions or applications of the regulation

which can be given effect without the invalid provision or application. To this end the provisions of this regulation are declared to be severable.

(k) This chapter or any portion or portions thereof may be waived by the New Jersey Department of Transportation if after consideration of the facts involved it is determined that a particular situation warrants such waiver. This provision shall apply to intrastate movements only. Application shall be made in writing to the Commissioner of Transportation before the subject materials are offered for transportation. The written application shall set forth the full circumstances and facts of the case. The applicant(s) shall not have the right to a hearing. Application shall only be made in cases of unique circumstances or hardship.

Amended by R.1986 d.447, effective November 3, 1986.

See: 18 N.J.R. 1791(a), 18 N.J.R. 2212(b).

Added text to (h) "and not to limit".

Amended by R.1989 d.101, effective February 21, 1989.

See: 20 N.J.R. 3005(a), 21 N.J.R. 456(a).

Changed date from November 1, 1985 to October 1, 1987.

Amended by R.1990 d.550, effective November 19, 1990.

See: 22 N.J.R. 2676(a), 22 N.J.R. 3500(c).

Clarification regarding jurisdiction added; (l), on combustible liquids, deleted.

Amended by R.1991 d.208, effective April 15, 1991.

See: 23 N.J.R. 55(b), 23 N.J.R. 1148(a).

Inspection of hazardous materials and cargo seal requirements added at (b)1.

Amended by R.1993 d.235, effective June 7, 1993.

See: 25 N.J.R. 1065(a), 25 N.J.R. 2497(a).

Amended by R.1995 d.74, effective February 6, 1995.

See: 26 N.J.R. 4488(b), 27 N.J.R. 509(a).

16:49-1.4 Penalty for violation of these provisions

(a) The penalty for a violation of these provisions including the Federal regulations incorporated by reference in N.J.A.C. 16:49-2 and herein shall be as specified under N.J.S.A. 39:5B-25 et seq., as amended.

(b) Each violation shall be treated separately. When the violation is a continuing one, each day of the violation constitutes a separate offense.

Amended by R.1986 d.477, effective November 3, 1986.

See: 18 N.J.R. 1791(a), 18 N.J.R. 2212(b).

Added "as amended."

16:49-1.5 Document availability

(a) Copies of the Federal "Hazardous Materials Regulations," Title 49, Code of Federal Regulations, Parts 171, 172, 173, 174, 177, 178, 179, and 180 revised as of September 26, 1994, and referenced herein, may be purchased from the places listed below. The "Federal Motor Carrier Safety Regulations," Title 49, Code of Federal Regulations, Part 382 and Parts 390 through 397, and the Federal Register and all supplements and amendments thereto, as adopted and incorporated, by reference in the Appendix to the Regulations Regarding the Transportation of Hazardous Materials, may also be purchased at the places listed below.

1. United States Government:

i. Superintendent of Documents

U.S. Government Printing Office
Washington, DC 20402
(202) 783-3238

ii. U.S. Government Printing Office Bookstore

Room 110, 26 Federal Plaza
New York, NY 10278-0081
(212) 264-3825

iii. U.S. Government Printing Office Bookstore

Robert Morris Building
100 North 17th St.
Philadelphia, PA 19103
(215) 636-1900

iv. Federal Highway Administration

Research and Special Programs Administration
Hazardous Materials Information Exchange
Electronic Bulletin Board
Toll Free: 1-800-752-6367
Dataline: (708) 972-3275

2. Non-governmental sources (Note: The inclusion of a non-governmental source in this paragraph does not constitute an endorsement or recommendation of the product or service offered, sold, or provided by that source or the accuracy of the information said to be contained therein. Non-governmental sources are listed solely as a convenience to interested parties.):

i. American Trucking Associations

2200 Mill Road
Alexandria, VA 22314-4677
Toll Free: 1-800-ATA-LINE (282-5463)

ii. J.J. Keller & Associates

3003 West Breezewood Lane
P.O. Box 368
Neenah, WI 54957-0368
Toll Free: 1-800-558-5011
(414) 722-2848

iii. Regulations Management Corporation

1505 Arlington Road
Bloomington, IN 47404-0809
(812) 333-7347

iv. Regulation Scanning

30 West Third St.

Williamsport, PA 17701

Toll Free: 1-800-326-9303

(b) Copies of the Federal "Hazardous Materials Regulations" and the "Federal Motor Carrier Safety Regulations" are available for review at the following public libraries:

1. New Jersey State Library
185 West State Street
Trenton, NJ 08625
(609) 292-6220
2. Newark Public Library
5 Washington Street
Newark, NJ 07101
(201) 733-7782
3. Jersey City Public Library
U.S. Government Documents Section
472 Jersey Avenue
Jersey City, NJ 07304
(201) 547-4517
4. New Brunswick Public Library
60 Livingston Avenue
New Brunswick, NJ 08901
(908) 745-5108
5. Trenton Public Library
120 Academy Street
Trenton, NJ 08608
(609) 392-7188
6. Camden County Public Library
Laurel Road
Voorhees, NJ 08043
(609) 772-1636
7. Cherry Hill Public Library
1100 Kings Highway, North
Cherry Hill, NJ 08034
(609) 667-0300

(c) Copies of the Federal "Hazardous Materials Regulations" and the "Federal Motor Carrier Safety Regulations" noted above are further available for review at the New Jersey Department of Transportation, Bureau of Ports, Terminals and Freight Services, 1035 Parkway Avenue, Trenton, NJ 08625. Hours at this office are 8:30 A.M. to 5:00 P.M., Monday through Friday. This office may be contacted at (609) 530-8031.

Amended by R.1986 d.447, effective November 3, 1986.

See: 18 N.J.R. 1791(a), 18 N.J.R. 2212(b).

Revised date from 1983 to 1985; changed phone numbers.

Amended by R.1989 d.101, effective February 21, 1989.

See: 20 N.J.R. 3005(a), 21 N.J.R. 456(a).

Amended by R.1990 d.550, effective November 19, 1990.

See: 22 N.J.R. 2676(a), 22 N.J.R. 3500(c).

Stylistic changes.

Amended by R.1993 d.235, effective June 7, 1993.

See: 25 N.J.R. 1065(a), 25 N.J.R. 2497(a).

Amended by R.1995 d.74, effective February 6, 1995.

See: 26 N.J.R. 4488(b), 27 N.J.R. 509(a).

16:49-1.6 Assistance

(a) For general assistance and procedural questions in matters related to New Jersey's Hazardous Materials Regulations, as adopted herein, contact:

Bureau of Ports, Terminals and Freight Services
New Jersey Department of Transportation
1035 Parkway Avenue
CN 600
Trenton, NJ 08625
(609) 530-8031

(b) For assistance in matters related to enforcement or interpretation of the Hazardous Materials Regulations, contact:

Office of Hazardous Materials Transportation,
Compliance and Enforcement
New Jersey Division of State Police
Division Headquarters
River Road
P.O. Box 7068
West Trenton, NJ 08628

(609) 882-2000, extension 2582 or 2586

(c) Statements or opinions provided by the Bureau of Ports, Terminals and Freight Services or by the Division of State Police do not constitute legal advice.

Amended by R.1986 d.447, effective November 3, 1986.

See: 18 N.J.R. 1791(a), 18 N.J.R. 2212(b).

Amended address.

Amended by R.1989 d.101, effective February 21, 1989.

See: 20 N.J.R. 3005(a), 21 N.J.R. 456(a).

Phone number changed.

Amended by R.1990 d.550, effective November 19, 1990.

See: 22 N.J.R. 2676(a), 22 N.J.R. 3500(c).

Stylistic changes.

Amended by R.1995 d.74, effective February 6, 1995.

See: 26 N.J.R. 4488(b), 27 N.J.R. 509(a).

SUBCHAPTER 2. ADOPTION OF PORTIONS OF TITLE 49, CODE OF FEDERAL REGULATIONS, BY REFERENCE, AND ADOPTION AND INCORPORATION, BY REFERENCE, OF FEDERAL MOTOR CARRIER SAFETY REGULATIONS WHEN ADOPTED, AMENDED, OR SUPPLEMENTED BY THE FHWA

16:49-2.1 Parts adopted by reference

(a) The New Jersey Department of Transportation, pursuant to N.J.S.A. 39:5B-25 et seq., hereby incorporates by reference the following portions of Title 49—Transportation, Code of Federal Regulations, revised as of September 26, 1994. The parts adopted by reference are found in Chapter 1, referred to as “Research and Special Programs Administration, Department of Transportation.” These parts are detailed in the APPENDIX TO THE REGULATIONS REGARDING THE TRANSPORTATION OF HAZARDOUS MATERIALS. The portions adopted are summarized below.

1. Part 171—General Information, Regulations, and Definitions. (Sections 171.1, 171.4, 171.5, 171.6 and 171.20 are omitted from adoption herein; modifications are made to Sections 171.15 and 171.16).

2. Part 172—Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information, and Training Requirements. (Modifications are made to Section 172.3.)

3. Part 173—Shippers—General Requirements for Shipments and Packagings (Section 173.32a is excluded from adoption herein).

4. Part 174—Carriage by Rail.

5. Part 177—Carriage by Public Highway.

6. Part 178—Specifications for Packagings.

7. Part 179—Specifications for Tank Cars. (Sections 179.3, 179.4, and 179.5 are excluded from adoption herein.)

8. Part 180—Continuing Qualification and Maintenance of Packagings.

(b) The Parts and Appendices of the Federal Motor Carrier Safety Regulations and all supplements and amendments thereto, adopted as a final rule action by the Federal Highway Administration, United States Department of Transportation, and adopted and incorporated, by reference, herein, by the Department, are summarized below.

1. Part 382—General.

2. Part 390—Federal Motor Carrier Safety Regulations: General.

3. Part 391—Qualification of Drivers.

4. Part 392—Driving of Motor Vehicles.

5. Part 393—Parts and Accessories Necessary for Safe Operation.

6. Part 394—(Removed and Reserved).

7. Part 395—Hours of Service of Drivers.

8. Part 396—Inspection, Repair, and Maintenance.

9. Part 397—Transportation of Hazardous Materials; Driving and Parking Rules.

10. Part 177—Carriage by Public Highway.

11. Part 178—Shipping Container.

12. Part 179—Specifications for Tank Cars.

13. Part 180—Continuing Qualification and Maintenance of Packagings.

(c) Supplements and amendments to the Federal Motor Carrier Safety Regulations and Appendices to the Federal Motor Carrier Safety Regulations which have been adopted as a final rule action by the Federal Highway Administration and become effective after September 26, 1994, are not listed in the appendix to this chapter. Those supplements and amendments are, pursuant to the above, adopted and incorporated, by reference, herein as if set forth in full. The full text of such supplements and amendments can be found by examining the Federal Register published after the above noted date. See also N.J.A.C. 16:49-1.5, Document availability, and N.J.A.C. 16:49-1.6, Assistance.

Amended by R.1986 d.447, effective November 3, 1986.

See: 18 N.J.R. 1791(a), 18 N.J.R. 2212(b).

Amended by R.1989 d.101, effective February 21, 1989.

See: 20 N.J.R. 3005(a), 21 N.J.R. 456(a).

Date changed from November 1, 1985 to October 1, 1987; deleted text in (a)3 “modifications are made ...”; and in (a)5 “(Section 177.825(a), ...”).

Amended by R.1990 d.550, effective November 19, 1990.

See: 22 N.J.R. 2676(a), 22 N.J.R. 3500(c).

Part 180 added at (a)8.

Amended by R.1993 d.235, effective June 7, 1993.

See: 25 N.J.R. 1065(a), 25 N.J.R. 2497(a).

Amended by R.1995 d.74, effective February 6, 1995.

See: 26 N.J.R. 4488(b), 27 N.J.R. 509(a).

APPENDIX TO THE REGULATIONS REGARDING THE TRANSPORTATION OF HAZARDOUS MATERIALS

This Appendix to the Regulations Regarding the Transportation of Hazardous Materials details the adopted portions of Title 49, C.F.R., by section. All sections are listed by number and title to identify content for the reader. Detailed modifications are stated within the appropriate section.

CHAPTER I
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION,
U.S. DEPARTMENT OF TRANSPORTATION

(Subchapter B is not being incorporated upon adoption)

SUBCHAPTER C—HAZARDOUS MATERIALS REGULATIONS

PART 171—GENERAL INFORMATION, REGULATIONS,
AND DEFINITIONS

Section 171.2 General requirements.
Section 171.3 Hazardous waste.
Section 171.7 Matter incorporated by Reference material.

These materials incorporated by reference are technical documents referred to, on occasion, in Title 49, Code of Federal Regulations. Specific technical document names, associations, and addresses where they may be found are contained in Section 171.7 of Title 49, Code of Federal Regulations.

Section 171.8 Definitions and abbreviations.
Section 171.9 Rules of construction.
Section 171.10 Units of measure.
Section 171.11 Use of ICAO Technical Instructions.
Section 171.12 Import and export shipments.
Section 171.12a Canadian shipments and packagings.
Section 171.13 Emergency regulations.
Section 171.14 Transitional provisions for implementing requirements based on the UN Recommendations.
Section 171.15 Immediate notice of certain hazardous materials incidents. (New Jersey revisions as noted below.)

Section 171.15 is revised to state the following. (Note: Paragraph (a) has been changed and paragraph (d) has been added.)

(a) At the earliest practicable moment, each carrier who transports hazardous materials (including hazardous wastes) shall give notice in accordance with paragraph (b) or paragraph (d) of this section after each incident that occurs during the course of transportation (including loading, unloading and temporary storage) in which

- (1) As a direct result of hazardous materials:
 - i. A person is killed; or
 - ii. A person receives injuries requiring his or her hospitalization; or
 - iii. Estimated carrier or other property damage exceeds \$50,000; or
 - iv. An evacuation of the general public occurs lasting one or more hours; or
 - v. One or more major transportation arteries or facilities are closed or shut down for one hour or more; or

vi. The operational flight pattern or routine of an aircraft is altered; or

(2) Fire, breakage, spillage, or suspected radioactive contamination occurs involving shipment of radioactive material (see also §§ 174.45, 175.45, 176.48, and 177.807 of this subchapter); or

(3) Fire, breakage, spillage, or suspected contamination occurs involving shipment of etiologic agents; or

(4) A situation exists of such a nature (e.g., a continuing danger to life exists at the scene of the incident) that, in the judgement of the carrier, it should be reported in accordance with (b) and (d) of this section.

(b) Each notice required by paragraph (a) of this section shall be given to the U.S. Department of Transportation by telephone (toll-free) on 800-424-8802. Notice involving etiologic agents may be given to the Director, Center for Disease Control, U.S. Public Health Service, Atlanta, Georgia, Area Code (404) 633-5313, in place of the notice to the U.S. Department of Transportation or (toll call) on 202-267-2675. Each notice must include the following information:

- (1) Name of reporter.
- (2) Name and address of carrier represented by reporter.
- (3) Phone number where reporter can be contacted.
- (4) Date, time, and location of incident.
- (5) The extent of injuries, if any.
- (6) Classification, name, and quantity of hazardous materials involved, if such information is available.
- (7) Type of incident and nature of hazardous material involvement and whether a continuing danger to life exists at the scene.

(c) Each carrier making a report under this section shall also make the report required by Section 171.16.

(d) If a New Jersey Police Accident Report has been filed with the New Jersey Division of Motor Vehicles, or if a Spill Report has been filed with the New Jersey Department of Environmental Protection, then reports requested above in paragraphs (b) and (c) are not required of intrastate carriers who are not under the jurisdiction of U.S.D.O.T. All other carriers are subject to the U.S.D.O.T. reporting requirements as usual.

Section 171.16—Detailed hazardous materials incident reports. (New Jersey revision as noted below.)

Section 171.16 is revised to state the following: (Note: Paragraph (a) and (b) have been changed and paragraph (e) has been added.)

(a) Each carrier who transports hazardous materials shall report in writing in duplicate on DOT Form 5800.1 (Rev. 6/89) to the U.S. Department of Transportation within 30 days of the date of discovery, unless the requirements of paragraph (e) in this section are met, each incident that occurs during the course of transportation (including loading, unloading, or temporary storage) in which any of the circumstances set forth in Section 171.15(a) occurs or there has been an unintentional release of hazardous materials from a package (including a tank) or any quantity of hazardous waste has been discharged during transportation. If a report pertains to a hazardous waste discharge—

(1) A copy of the hazardous waste manifest for the waste must be attached to the report; and

(2) An estimate of the quantity of the waste removed from the scene, the name and address of the facility to which it was taken, and the manner of disposition of any removed waste must be entered in Section IX of the report form (F 5800.1) (Rev. 6/89).

(b) Each carrier making a report under this section shall send that report to the Information Systems Manager, DHM-63, Research and Special Programs Administration, U.S. Department of Transportation, Washington, DC 20590. A copy of the report shall be retained for a period of two years, at the carrier's principal place of business, or at other places as authorized and approved in writing by an agency of the U.S. Department of Transportation.

(c) Except as provided in paragraph (d) of this section, the requirements of paragraph (a) of this section do not apply to incidents involving the unintentional release of hazardous materials being transported under the following proper shipping names:

(1) Consumer commodity.

(2) Battery, electric storage, wet, filled with acid or alkali.

(3) Paint and paint related material when shipped in packagings of five gallons or less.

(d) The exceptions to incident reporting provided in paragraph (c) of this section do not apply to:

(1) Incidents required to be reported under Section 171.15(a);

(2) Incidents involving transportation aboard aircraft; nor

(3) Incidents involving the transportation of hazardous waste.

(e) If a New Jersey Police Accident Report has been filed with the New Jersey Division of Motor Vehicles or if a Spill Report has been filed with the New Jersey Department of Environmental Protection and Energy, then other reports requested in this section are not required of intrastate carriers who are not under the jurisdiction of U.S.D.O.T.

All other carriers are subject to the U.S.D.O.T. reporting requirements as usual.

Section 171.18 Continuation of effectiveness of existing Bureau of Explosives registrations.

Section 171.19 Approvals or authorizations issued by the Bureau of Explosives.

Section 171.21 Assistance in investigations and special studies.

PART 172—HAZARDOUS MATERIALS TABLE, SPECIAL PROVISIONS, HAZARDOUS MATERIALS COMMUNICATIONS, EMERGENCY RESPONSE INFORMATION, AND TRAINING REQUIREMENTS

Subpart A—General

Section 172.1 Purpose and scope.

Section 172.3 Applicability.

(a) This part applies to: (1) Each person who offers a hazardous material for transportation, and (2) Each carrier by highway or rail who transports a hazardous material.

(b) When a person other than one of those provided for in paragraph (a) of this section, performs a packaging, labeling or marking function required by this part, that person shall perform the function in accordance with this part.

Subpart B—Table of Hazardous Materials, Their Description, Proper Shipping Name, Class, Label, Packaging, and Other Requirements

Section 172.101 Purpose and use of Hazardous Materials Table, including the Hazardous Materials Table, the CERCLA List, and the List of Hazardous Substances and Reportable Quantities.

Section 172.102 Special provisions.

Index—Identification Number Cross Reference to Proper Shipping Names in Section 172.01

Subpart C—Shipping Papers.

Section 172.200 Applicability.

Section 172.201 General entries.

Section 172.202 Description of hazardous material on shipping papers.

Section 172.203 Additional description requirements.

Section 172.204 Shipper's certification.

Section 172.205 Hazardous waste manifest.

Subpart D—Marking.

Section 172.300 Applicability.

Section 172.301 General marking requirements for non-bulk packaging.

Section 172.302 General marking requirements for bulk packaging.

Section 172.303 Prohibited marking.

Section 172.304 Marking requirements.

Section 172.308 Authorized abbreviations.

Section 172.310 Radioactive materials.

Section 172.312 Liquid hazardous materials in non-bulk packagings.

Section 172.313 Poisonous hazardous materials.

- Section 172.316 Packagings containing materials classed as ORM-D.
- Section 172.320 Explosive hazardous materials.
- Section 172.322 Marine Pollutants.
- Section 172.324 Hazardous substances in non-bulk packagings.
- Section 172.325 Elevated temperature materials.
- Section 172.326 Portable tanks.
- Section 172.328 Cargo tanks.
- Section 172.330 Tank cars and multi-unit tank car tanks.
- Section 172.331 Bulk packagings other than portable tanks, cargo tanks, tank cars and multi-unit tank car tanks.
- Section 172.332 Identification number markings.
- Section 172.334 Identification numbers; prohibited display.
- Section 172.336 Identification numbers; special provisions.
- Section 172.338 Replacement of identification numbers.
- Subpart E—Labeling.**
- Section 172.400 General labeling requirements.
- Section 172.400a Exceptions from labeling.
- Section 172.401 Prohibited labeling.
- Section 172.402 Additional labeling requirements.
- Section 172.403 Radioactive material.
- Section 172.404 Labels for mixed and consolidated packaging.
- Section 172.405 Authorized label modifications.
- Section 172.406 Placement of labels.
- Section 172.407 Label specifications.
- Section 172.411 EXPLOSIVE 1.1, 1.2, 1.3, 1.4, 1.5, and 1.6 labels, and EXPLOSIVE Subsidiary label.
- Section 172.415 NON-FLAMMABLE GAS label.
- Section 172.416 POISON GAS label.
- Section 172.417 FLAMMABLE GAS label.
- Section 172.419 FLAMMABLE LIQUID label.
- Section 172.420 FLAMMABLE SOLID label.
- Section 172.422 SPONTANEOUSLY COMBUSTIBLE label.
- Section 172.423 DANGEROUS WHEN WET label.
- Section 172.426 OXIDIZER label.
- Section 172.427 ORGANIC PEROXIDE label.
- Section 172.430 POISON label.
- Section 172.431 KEEP AWAY FROM FOOD label.
- Section 172.432 INFECTIOUS SUBSTANCE label.
- Section 172.436 RADIOACTIVE WHITE-I label.
- Section 172.438 RADIOACTIVE YELLOW-II label.
- Section 172.440 RADIOACTIVE YELLOW-III label.
- Section 172.442 CORROSIVE label.
- Section 172.446 CLASS 9 label.
- Section 172.448 CARGO AIRCRAFT ONLY label.
- Section 172.450 EMPTY label.
- Subpart F—Placarding.**
- Section 172.500 Applicability of placarding requirements.
- Section 172.502 Prohibited and permissive placarding.
- Section 172.503 Identification number display on placards.
- Section 172.504 General placarding requirements.
- Section 172.505 Placarding for subsidiary hazards.
- Section 172.506 Providing and affixing placards: Highway.
- Section 172.507 Special placarding provisions: Highway.
- Section 172.508 Placarding and affixing placards: Rail.
- Section 172.510 Special placarding provisions: Rail.
- Section 172.512 Freight containers and aircraft unit load devices.
- Section 172.514 Bulk packagings other than tank cars.
- Section 172.516 Visibility and display of placards.
- Section 172.519 General specifications for placards.
- Section 172.521 DANGEROUS placard.
- Section 172.522 EXPLOSIVES 1.1, EXPLOSIVES 1.2 and EXPLOSIVES 1.3 placards.
- Section 172.523 EXPLOSIVES 1.4 placard.
- Section 172.524 EXPLOSIVES 1.5 placard.
- Section 172.525 EXPLOSIVES 1.6 placard.
- Section 172.526 Standard requirements for the RESIDUE placard.
- Section 172.527 Background requirements for certain placards.
- Section 172.528 NON-FLAMMABLE GAS placard.
- Section 172.530 OXYGEN placard.
- Section 172.532 FLAMMABLE GAS placard.
- Section 172.540 POISON GAS placard.
- Section 172.542 FLAMMABLE placard.
- Section 172.544 COMBUSTIBLE placard.
- Section 172.546 FLAMMABLE SOLID placard.
- Section 172.547 SPONTANEOUSLY COMBUSTIBLE placard.
- Section 172.548 DANGEROUS WHEN WET placard.
- Section 172.550 OXIDIZER placard.
- Section 172.552 ORGANIC PEROXIDE placard.
- Section 172.553 KEEP AWAY FROM FOOD placard.
- Section 172.554 POISON placard.
- Section 172.556 RADIOACTIVE placard.
- Section 172.558 CORROSIVE placard.
- Section 172.560 CLASS 9 placard.
- Subpart G—Emergency Response Information**
- Section 172.600 Applicability and general requirements.
- Section 172.602 Emergency response information.
- Section 172.604 Emergency response telephone number.
- Subpart H—Training**
- Section 172.700 Purpose and scope.
- Section 172.701 Federal-State relationship.
- Section 172.702 Applicability and responsibility for training and testing.
- Section 172.704 Training requirements.
- Appendix A—Office of Hazardous Materials Transportation Color Tolerance Charts and Tables**
- Appendix C—Dimensional Specifications for Recommended Placard Holder**
- PART 173—SHIPPERS—GENERAL REQUIREMENTS FOR SHIPMENTS AND PACKAGINGS**
- Subpart A—General**
- Section 173.1 Purpose and scope.
- Section 173.2 Hazardous materials classes and index to hazard class definitions.
- Section 173.2A Classification of a material having more than one hazard.
- Section 173.3 Packaging and exceptions.
- Section 173.3a Packaging; special requirements for certain poisonous materials.
- Section 173.4 Exceptions for small quantities.
- Section 173.5 Agricultural operations.
- Section 173.5a Oilfield service vehicles.
- Section 173.7 U.S. Government material.
- Section 173.9 Cars, truck bodies, freight containers or trailers containing lading which has been fumigated or treated with Class 3, Division 2.1, 2.3, or 6.1 materials.

- Section 173.10 Tank car shipments.
- Section 173.11 Shipper's registration statement; flammable cryogenic liquids.
- Section 173.12 Exceptions for shipment of waste material.

Subpart B—Preparation of Hazardous Materials for Transportation

- Section 173.21 Forbidden materials and packages.
- Section 173.22 Shipper's responsibility.
- Section 173.22a Use of packagings authorized under exemptions.
- Section 173.23 Previously authorized packaging.
- Section 173.24 General requirements for packagings and packages.
- Section 173.24a Additional general requirements for non-bulk packagings and packages.
- Section 173.24b Additional general requirements for bulk packagings.
- Section 173.25 Authorized packages and overpacks.
- Section 173.26 Quantity limitations.
- Section 173.27 General requirements for transportation by aircraft.
- Section 173.28 Reuse, reconditioning and remanufacture of packagings.
- Section 173.29 Empty packagings.
- Section 173.30 Loading and unloading of transport vehicles.
- Section 173.31 Qualification, maintenance, and use of tank cars.
- Section 173.32 Qualification, maintenance and use of portable tanks.
- Section 173.32a Approval of Specification IM portable tanks.
- Section 173.32b Periodic testing and inspection of Specification IM portable tanks.
- Section 173.32c Use of Specification IM portable tanks.
- Section 173.33 Hazardous materials in cargo tank motor vehicles.
- Section 173.34 Qualification, maintenance and use of cylinders.
- Section 173.40 General packaging requirements for poisonous materials required to be packaged in cylinders.

Subpart C—Definitions, Classification and Packaging for Class 1

- Section 173.50 Class 1—definitions.
- Section 173.51 Authorization to offer and transport explosives.
- Section 173.52 Classification codes and compatibility groups of explosives.
- Section 173.53 Provisions for using old classifications of explosives.
- Section 173.54 Forbidden explosives.
- Section 173.56 New explosives—definition and procedures for classification and approval.
- Section 173.57 Acceptance criteria for new explosives.
- Section 173.58 Assignment of class and division for new explosives.
- Section 173.59 Description of terms for explosives.
- Section 173.60 General packaging requirements for explosives.
- Section 173.61 Mixed packaging requirements.
- Section 173.62 Specific packaging requirements.
- Section 173.63 Packaging exceptions.

Subpart D—Definitions, Classification, Packing Group Assignments and Exceptions for Hazardous Materials Other Than Class 1 and Class 7

- Section 173.115 Class 2, Divisions 2.1, 2.2, and 2.3—Definitions.
- Section 173.116 Class 2—Assignment of hazard zone.
- Section 173.120 Class 3—Definitions.
- Section 173.121 Class 3—Assignment of packing group.
- Section 173.124 Class 4, Divisions 4.1, 4.2, and 4.3—Definitions.
- Section 173.125 Class 4—Assignment of packing group.
- Section 173.127 Class 5, Division 5.1—Definition and assignment of packing groups.
- Section 173.128 Class 5, Division 5.2—Definitions and types.
- Section 173.129 Class 5, Division 5.2—Assignment of packing group.
- Section 173.132 Class 6, Division 6.1—Definitions.
- Section 173.133 Division 6.1—Assignment of packing group and hazard zones.
- Section 173.134 Class 6, Division 6.2—Definitions.
- Section 173.136 Class 8—Definitions.
- Section 173.137 Class 8—Assignment of packing group.
- Section 173.140 Class 9—Definitions.
- Section 173.141 Class 9—Assignment of packing group.
- Section 173.144 Other Regulated Materials (ORM)—Definitions.
- Section 173.145 Other Regulated Materials—Assignment of packing group.
- Section 173.150 Exceptions for Class 3 (flammable and combustible liquids).
- Section 173.151 Exceptions for Division 4.1 (flammable solids).
- Section 173.152 Exceptions for Division 5.1 (oxidizers) and Division 5.2 (organic peroxides).
- Section 173.153 Exceptions for Division 6.1 (poisonous materials).
- Section 173.154 Exceptions for Class 8 (corrosive materials).
- Section 173.155 Exceptions for Class 9 (miscellaneous hazardous materials).
- Section 173.156 Exceptions for ORM materials.

Subpart E—Non-bulk Packaging for Hazardous Materials Other Than Class I and Class 7

- Section 173.158 Nitric acid.
- Section 173.159 Batteries, wet.
- Section 173.160 Bombs, smoke, non-explosive (corrosive).
- Section 173.161 Chemical kits.
- Section 173.162 Gallium.
- Section 173.163 Hydrogen fluoride.
- Section 173.164 Mercury (metallic and articles containing mercury).
- Section 173.171 Smokeless powder for small arms.
- Section 173.172 Aircraft hydraulic power unit fuel tank.
- Section 173.173 Paint, paint-related material, adhesives and ink.
- Section 173.174 Refrigerating machines.
- Section 173.181 Pyrophoric materials (liquids).
- Section 173.182 Barium azide—50 percent or more water wet.
- Section 173.183 Nitrocellulose base film.
- Section 173.184 Highway or rail fusee.
- Section 173.185 Lithium batteries and cells.
- Section 173.186 Matches.
- Section 173.187 Pyrophoric solids, metals or alloys, n.o.s.
- Section 173.188 White or yellow phosphorous.

- Section 173.192 Packaging for certain Packing Group I poisonous materials.
- Section 173.193 Bromoacetone, methyl bromide, chloropicrin and methyl bromide or methyl chloride mixtures, etc.
- Section 173.194 Gas identification sets.
- Section 173.195 Hydrogen cyanide, anhydrous, stabilized (hydrocyanic acid, aqueous solution.)
- Section 173.196 Infectious substances (etiologic agents).
- Section 173.197 Regulated medical waste.
- Section 173.198 Nickel carbonyl.
- Section 173.201 Non-bulk packagings for liquid hazardous materials in Packing Group I.
- Section 173.202 Non-bulk packagings for liquid hazardous materials in Packing Group II.
- Section 173.203 Non-bulk packagings for liquid hazardous materials in Packing Group III.
- Section 173.204 Non-bulk, non-specification packagings for certain hazardous materials.
- Section 173.205 Specification cylinders for liquid hazardous materials.
- Section 173.211 Non-bulk packagings for solid hazardous materials in Packing Group I.
- Section 173.212 Non-bulk packagings for solid hazardous materials in Packing Group II.
- Section 173.213 Non-bulk packagings for solid hazardous materials in Packing Group III.
- Section 173.214 Packagings which require approval by the Associate Administrator for Hazardous Materials Safety.
- Section 173.216 Asbestos, blue, brown, or white.
- Section 173.217 Carbon dioxide, solid (dry ice).
- Section 173.218 Fish meal or fish scrap.
- Section 173.219 Life-saving appliances.
- Section 173.220 Internal combustion engines, self-propelled vehicles, and mechanical equipment containing internal combustion engines or wet batteries.
- Section 173.221 Polystyrene beads, expandable.
- Section 173.222 Wheelchairs equipped with wet electric storage batteries.
- Section 173.224 Packaging and control and emergency temperatures for self-reactive materials.
- Section 173.225 Packaging requirements and other provisions for organic peroxides.
- Section 173.226 Materials poisonous by inhalation, Division 6.1, Packing Group I, Hazard Zone A.
- Section 173.227 Materials poisonous by inhalation, Division 6.1, Packing Group I, Hazard Zone B.
- Section 173.228 Bromine pentafluoride or bromine trifluoride.
- Section 173.229 Chloric acid solution or chlorine dioxide hydrate, frozen.
- Section 173.230 Non-bulk packagings for ORM-D materials.
- Section 173.243 Bulk packaging for certain high hazard liquids and dual hazard liquids which pose a moderate hazard.
- Section 173.244 Bulk packaging for certain pyrophoric liquids (Division 4.2) and poison liquids with inhalation hazards (Division 6.1).
- Section 173.245 Bulk packaging for extremely hazardous materials such as poisonous gases (Division 2.3).
- Section 173.247 Elevated temperature material.
- Section 173.249 Bromine.
- Subpart G—Gases; Preparation and Packaging
- Section 173.300 (Reserved)
- Section 173.300a Approval of independent inspection agency.
- Section 173.300b Approval of non-domestic chemical analyses and tests.
- Section 173.300c Termination of approval.
- Section 173.301 General requirements for shipment of compressed gases in cylinders.
- Section 173.302 Charging of cylinders with non-liquefied compressed gases.
- Section 173.303 Charging of cylinders with compressed gas in solution (acetylene).
- Section 173.304 Charging of cylinders with liquefied compressed gas.
- Section 173.305 Charging of cylinders with a mixture of compressed gas and other material.
- Section 173.306 Limited quantities of compressed gases.
- Section 173.307 Exceptions for compressed gases.
- Section 173.308 Cigarette lighter or other similar device charged with fuel.
- Section 173.309 Fire extinguishers.
- Section 173.314 Requirements for compressed gases in tank car tanks.
- Section 173.315 Compressed gases in cargo tanks and portable tanks.
- Section 173.316 Cryogenic liquids in cylinders.
- Section 173.318 Cryogenic liquids in cargo tanks.
- Section 173.319 Cryogenic liquids in tank cars.
- Section 173.320 Cryogenic liquids; exceptions.
- Section 173.321 Ethylamine.
- Section 173.322 Ethyl chloride.
- Section 173.323 Ethylene oxide.
- Section 173.324 Ethyl methyl ether.
- Subpart H—(Reserved)
- Section 173.334 Organic phosphates mixed with compressed gas.
- Section 173.335 Gas generator assemblies.
- Section 173.336 Nitrogen dioxide, liquid; nitrogen peroxide, liquid; and nitrogen tetroxide, liquid.
- Section 173.337 Nitric oxide.
- Section 173.338 Tungsten hexafluoride.
- Section 173.340 Tear gas devices.
- Subpart I—Radioactive Materials.
- Section 173.401 Scope.
- Section 173.403 Definitions.
- Section 173.411 General design requirements.
- Section 173.412 Additional design requirements for Type A packages.
- Section 173.413 Requirements for Type B packages.
- Section 173.415 Authorized Type A packages.
- Section 173.416 Authorized Type B packages.
- Section 173.417 Authorized packaging—fissile materials.
- Subpart F—Bulk Packaging for Hazardous Materials Other Than Class 1 and Class 7
- Section 173.240 Bulk packaging for certain low hazard solid materials.
- Section 173.241 Bulk packaging for certain low hazard liquid and solid materials.
- Section 173.242 Bulk packagings for certain medium hazard liquids and solids, including solids with dual hazards.

- Section 173.418 Authorized packaging—pyrophoric radioactive materials.
 - Section 173.419 Authorized packaging—oxidizing radioactive materials.
 - Section 173.420 Uranium hexafluoride (fissile and low specific activity).
 - Section 173.421 Limited quantities of radioactive materials.
 - Section 173.421-1 Additional requirements for excepted packages containing Class 7 (radioactive) materials.
 - Section 173.421-2 Requirements for multiple hazard limited quantity radioactive materials.
 - Section 173.422 Exceptions for instruments and articles.
 - Section 173.423 Table of activity limits-excepted quantities and articles.
 - Section 173.424 Excepted article containing natural uranium or thorium.
 - Section 173.425 Transport requirements for low specific activity (LSA) radioactive materials.
 - Section 173.427 Empty radioactive materials packaging.
 - Section 173.431 Activity limits for Type A and Type B packages.
 - Section 173.433 Requirements for determination of A₁ and A₂ values for radionuclides.
 - Section 173.434 Activity-mass relationships for uranium and natural thorium.
 - Section 173.435 Table A₁ and A₂ values for radionuclides.
 - Section 173.441 Radiation level limitations.
 - Section 173.442 Thermal limitations.
 - Section 173.443 Contamination control.
 - Section 173.444 Labeling requirements.
 - Section 173.446 Placarding requirements.
 - Section 173.447 Storage incident to transportation—general requirements.
 - Section 173.448 General transportation requirements.
 - Section 173.451 Fissile materials—general requirements.
 - Section 173.453 Fissile materials—exceptions.
 - Section 173.455 Classification of fissile materials packages.
 - Section 173.457 Transportation of Fissile Class III shipments—specific requirements.
 - Section 173.459 Mixing of fissile material packages.
 - Section 173.461 Demonstration of compliance with tests.
 - Section 173.462 Preparation of specimens for testing.
 - Section 173.463 Packaging and shielding—testing for integrity.
 - Section 173.465 Type A packaging tests.
 - Section 173.466 Additional tests for Type A packagings designed for liquids and gases.
 - Section 173.467 Tests for demonstrating the ability of Type B and fissile radioactive materials packagings to withstand accident conditions in transportation.
 - Section 173.469 Tests for special form radioactive materials.
 - Section 173.471 Requirements for U.S. Nuclear Regulatory Commission approved packages.
 - Section 173.472 Requirements for exporting DOT Specification Type B and fissile packages.
 - Section 173.473 Requirements for foreign-made packages.
 - Section 173.474 Quality control for construction of packaging.
 - Section 173.475 Quality control requirements prior to each shipment of radioactive materials.
 - Section 173.476 Approval of special form radioactive materials.
 - Section 173.477 Approval for export shipments.
 - Section 173.478 Notification to competent authorities for export shipments.
 - Appendix A to Part 173—Method of Testing Corrosion to Skin.
 - Appendix B to Part 173—Procedure for Testing Chemical Compatibility and Rate of Permeation in Plastic Packaging and Receptacles.
 - Appendix C to Part 173—Procedure for Base-level Vibration Testing.
 - Appendix D to Part 173—Test Methods for Dynamite (Explosive, Blasting, Type A).
 - Appendix E to Part 173—Guidelines for the Classification and Packing Group Assignment of Class 4 Materials.
 - Appendix F to Part 173—Guidelines for the Classification and Packing Group Assignment of Division 5.1 Materials.
 - Appendix G to Part 173—Definition of Regulated Medical Waste.
- PART 174—CARRIAGE BY RAIL**
- Subpart A—General Requirements
 - Section 174.1 Purpose and scope.
 - Section 174.3 Unacceptable hazardous materials shipments.
 - Section 174.5 Carrier's materials and supplies.
 - Section 174.7 Responsibility for compliance.
 - Section 174.8 Inspection.
 - Section 174.9 Inspection of tank cars.
 - Section 174.10 Inspection of cars at interchange.
 - Section 174.11 Canadian shipments and packagings.
 - Section 174.12 Intermediate shippers and carriers.
 - Section 174.14 Movements to be expedited.
 - Section 174.16 Removal and disposition of hazardous materials at destination.
 - Section 174.18 Astray shipments.
 - Section 174.20 Local or carrier restrictions.
 - Subpart B—General Operating Requirements
 - Section 174.24 Shipping papers.
 - Section 174.25 Additional information on waybills, switching orders and other billings.
 - Section 174.26 Notice to train crews of placarded cars.
 - Section 174.33 Lost or destroyed labels and placards.
 - Section 174.45 Reporting hazardous materials incidents.
 - Section 174.47 Correction of violations.
 - Section 174.48 Leaking packages other than tank cars.
 - Section 174.49 Flammable vapors.
 - Section 174.50 Leaking tank cars.
 - Subpart C—General Handling and Loading Requirements
 - Section 174.55 General requirements.
 - Section 174.57 Cleaning cars.
 - Section 174.59 Marking and placarding of rail cars.
 - Section 174.61 Truck bodies, trailers or freight containers on flatcars.
 - Section 174.63 Freight containers, portable tanks and IM portable tanks.

- Section 174.67 Tank car unloading.
 Section 174.69 Removal of placards and car certificates after unloading.
 Section 174.81 Segregation of hazardous materials.
- Subpart D—Handling of Placarded Rail Cars, Transport Vehicles and Freight Containers**
- Section 174.82 General requirements for the handling of placarded rail cars, transport vehicles, freight containers, and bulk packagings.
 Section 174.83 Switching placarded rail cars, transport vehicles, freight containers, and bulk packagings.
 Section 174.84 Position in train of loaded placarded rail cars, transport vehicles, freight containers or bulk packagings when accompanied by guards or technical escorts.
 Section 174.85 Position in train of placarded cars, transport vehicles, freight containers, and bulk packagings.
 Section 174.86 Maximum allowable operating speed.
- Subpart E—Class I (Explosive) Materials**
- Section 174.100 Forbidden Class I (explosive) materials.
 Section 174.101 Loading Class 1 (explosive) materials.
 Section 174.102 Forbidden mixed loading and storage.
 Section 174.103 Disposition of damaged or astray shipments.
 Section 174.104 Division 1.1 or 1.2 (Class A explosive) materials; car selection, preparation, inspection, and certification.
 Section 174.105 Routing shipments, Division 1.1 or 1.2 (Class A explosive) materials.
 Section 174.106 "Order-Notify" or "C.O.D." shipments, Division 1.1 or 1.2 (Class A explosive) materials.
 Section 174.107 Shipping days for Division 1.1 or 1.2 (Class A explosive) materials.
 Section 174.109 Non-agency shipments.
 Section 174.110 Car magazine.
 Section 174.112 Loading Division 1.3 (Class B explosive) materials (Also see Section 174.101).
 Section 174.114 Record to be made of change of seals on "Cars loaded with Division 1.1 or 1.2 (explosive) materials" laden cars.
 Section 174.115 Loading Division 1.4 (Class C explosive) materials.
- Subpart F—Detailed Requirements for Class 2 (Gases) Materials**
- Section 174.200 Special handling requirements.
 Section 174.201 Class 2 (gases) material cylinders.
 Section 174.204 Tank car delivery of gases, including cryogenic liquids.
 Section 174.208 Rail cars, truck bodies, or trailers with fumigated or treated lading.
 Section 174.280 Division 2.3 (poisonous gas) materials with foodstuffs.
 Section 174.290 Materials extremely poisonous by inhalation shipped by, for, or to the Department of Defense.
- Subpart G—Detailed Requirements for Class 3 (Flammable Liquid) Materials**
- Section 174.300 Special handling requirements.
 Section 174.304 Class 3 (flammable liquid) materials in tank cars.
 Section 174.380 Class 3 (flammable liquid) materials, with a subsidiary hazard of Division 6.1 (poisonous) materials, with foodstuffs.
- Subpart H—Detailed Requirements for Class 4 (Flammable Solid) Materials**
- Section 174.410 Special handling requirements for matches.
 Section 174.430 Special handling requirements for Division 4.2 (pyrophoric liquid) materials.
 Section 174.450 Fires.
 Section 174.480 Class 4 (flammable solid) materials, with a subsidiary hazard of Division 6.1 (poisonous) materials, with foodstuffs.
- Subpart I—Detailed Requirements for Division 5.1 (Oxidizing) Materials**
- Section 174.510 Special handling requirements for nitrates.
 Section 174.515 Cleaning cars; potassium permanganate.
 Section 174.580 Division 5.1 (oxidizer) materials, with a subsidiary hazard of Division 6.1 (poisonous materials), with foodstuffs.
- Subpart J—Detailed Requirements for Division 6.1 (Poisonous) Materials**
- Section 174.600 Special handling requirements for materials extremely poisonous by inhalation.
 Section 174.615 Cleaning cars.
 Section 174.680 Division 6.1 (poisonous) materials with foodstuffs.
- Subpart K—Detailed Requirements for Class 7 (Radioactive) Materials**
- Section 174.700 Special handling requirements for Class 7 (radioactive) materials.
 Section 174.715 Cleanliness of cars after use.
 Section 174.750 Incidents involving leakage.
- Subpart L—Detailed Requirements for Class 8 (Corrosive) Materials**
- Section 174.800 Special handling requirements for Class 8 (corrosive) materials.
 Section 174.810 Special handling requirements for wet electric storage batteries.
 Section 174.812 (Reserved)
- Subpart M—Detailed Requirements for Class 9 (Miscellaneous Hazardous) Materials**
- Section 174.840 Special loading and handling requirements for asbestos.
- PART 177—CARRIAGE BY PUBLIC HIGHWAY**
- Subpart A—General Information and Regulations**
- Section 177.800 Purpose and scope.
 Section 177.801 Unacceptable hazardous materials shipments.
 Section 177.802 Inspection.
 Section 177.803 Export and import shipments by domestic carriers by motor vehicles.
 Section 177.804 Compliance with Federal Motor Carrier Safety Regulations.
- Motor carriers and other persons subject to this part shall comply with 49 CFR Part 382 and Parts 390 through 397 (excluding section 391.69, 393.81, and 397.3), and all supplements and amendments thereto, to the extent those rules apply. Carriers transporting hazardous materials, substances, or wastes as defined herein must comply with these parts as listed below.

(See N.J.A.C. 16:49-1.3(1) herein).

MOTOR CARRIER SAFETY REGULATIONS

SUBCHAPTER B—FEDERAL MOTOR CARRIER SAFETY REGULATIONS

PART 382—CONTROLLED SUBSTANCES AND ALCOHOL USE AND TESTING

Subpart A—General

- Section 382.101 Purpose.
- Section 382.103 Applicability.
- Section 382.105 Testing procedures.
- Section 382.107 Definitions.
- Section 382.109 Preemption of State and local laws.
- Section 382.111 Other requirements imposed by employers.
- Section 382.113 Requirement for notice.
- Section 382.115 Starting date for testing programs.

Subpart B—Prohibitions

- Section 382.201 Alcohol concentration.
- Section 382.204 Alcohol possession.
- Section 382.205 On-duty use.
- Section 382.207 Pre-duty use.
- Section 382.209 Use following an accident.
- Section 382.211 Refusal to submit to a required alcohol or controlled substances test.
- Section 382.213 Controlled substances use.
- Section 382.215 Controlled substances testing.

Subpart C—Tests Required

- Section 382.301 Pre-employment testing.
- Section 382.303 Post-accident testing.
- Section 382.305 Random testing.
- Section 382.307 Reasonable suspicion testing.
- Section 382.309 Return-to-duty testing.
- Section 382.311 Follow-up testing.

Subpart D—Handling of Test Results, Record Retention, and Confidentiality

- Section 382.401 Retention of records.
- Section 382.403 Reporting of results in a management information system.
- Section 382.405 Access to facilities and records.
- Section 382.407 Medical review officer notifications to the employer.
- Section 382.409 Medical review officer record retention for controlled substances.
- Section 382.411 Employer notifications.
- Section 382.413 Release of alcohol and controlled substances test information by previous employers.

Subpart E—Consequences for Drivers Engaging in Substance Use-Related Conduct

- Section 382.501 Removal from safety-sensitive function.
- Section 382.503 Required evaluation and testing.
- Section 382.505 Other alcohol-related conduct.
- Section 382.507 Penalties.

Subpart F—Alcohol Misuse and Controlled Substances Use Information, Training, and Referral

- Section 382.601 Motor carrier obligation to promulgate a policy on the misuse of alcohol and use of controlled substances.
- Section 382.603 Training for supervisors.

Section 382.605 Referral, evaluation, and treatment.

PART 390—FEDERAL MOTOR CARRIER SAFETY REGULATIONS: GENERAL

Subpart A—General Applicability and Definitions

- Section 390.1 Purpose.
- Section 390.3 General applicability.
- Section 390.5 Definitions.
- Section 390.7 Rules of construction.

Subpart B—General Requirements and Information

- Section 390.9 State and local laws, effect on.
- Section 390.11 Motor carrier to require observance of driver regulations.
- Section 390.13 Aiding or abetting violations.
- Section 390.15 Assistance in investigations and special studies.
- Section 390.19 Additional equipment and accessories.
- Section 390.21 Marking of commercial motor vehicles.

(Section 390.21 is modified to state the following:) A commercial motor vehicle operated in intrastate commerce shall be subject to the provisions of N.J.S.A. 39:4-46.

Section 390.23 Relief from regulations.

(Section 390.23 is modified to state the following:) The following commercial motor vehicles, operating in intrastate commerce, are exempt from this section when any emergency occurs that affects the citizens of New Jersey:

(a) Commercial motor vehicles which are owned, operated, or leased by a public or quasi-public or private entity in this State, said entity being subject to the jurisdiction of the Board of Regulatory Commissioners; or

(b) Commercial motor vehicles which are owned, operated or leased by a public or quasi-public or private entity in this State and which is or will be operated under a contract to the State of New Jersey or a governmental or quasi-governmental entity thereof.

Such emergencies include, but are not limited to, weather and other acts of nature (e.g., snow, flooding, earthquake, power/telephone outages, disruptions to power or telephone transmission lines or facilities, supply lines or facilities for steam, water, or gas) and other emergencies (e.g., motor vehicle accidents, industrial accidents, fires, etc.)

- Section 390.25 Extension of relief from regulations—emergencies.
- Section 390.27 Locations of regional motor carrier safety offices.
- Section 390.31 Copies of records or documents.
- Section 390.33 Vehicles used for purposes other than defined.
- Section 390.35 Certificates, reports, and records: falsification, reproduction, or alteration.
- Section 390.37 Violation and penalty.

PART 391—QUALIFICATION OF DRIVERS

Subpart A—General

- Section 391.1 Scope of the rules in this part; additional qualification; duties of carrier-drivers.
- Section 391.2 General exemptions.

Subpart B—Qualifications and Disqualification of Drivers

- Section 391.11 Qualifications of drivers.
Section 391.15 Disqualification of drivers.

Subpart C—Background and Character

- Section 391.21 Application for employment as specified in this Section 391.21 is not required for persons already employed by the same carrier as of March 4, 1985.
Section 391.23 Investigation and inquiries. Section 391.23 shall apply only to drivers hired after March 4, 1985.
Section 391.25 Annual review of driving record.
Section 391.27 Record of violations.

Subpart D—Examinations and Tests

- Section 391.31 Road test.
(Section 391.31 is modified to state the following:)

The provisions of Section 391.31 do not apply to a driver engaged in intrastate commerce who possesses a valid New Jersey Commercial Driver License (CDL) as of February 6, 1995, and transports hazardous material(s) requiring hazardous material(s) placarding in accordance with Subpart F of Part 172 of the Hazardous Materials Regulations (49 C.F.R. § 172.500 et seq.), or operates a vehicle displaying a hazardous material(s) placard.

- Section 391.33 Equivalent of road test.
Section 391.35 Written examination.
(Section 391.35 is modified to state the following:)

The provisions of Section 391.35 do not apply to a driver engaged in intrastate commerce who possesses a valid New Jersey Commercial Driver License (CDL) as of February 6, 1995, and transports hazardous material(s) requiring hazardous material(s) placarding in accordance with Subpart F of Part 172 of the Hazardous Materials Regulations (49 C.F.R. § 172.500 et seq.), or operates a vehicle displaying a hazardous material(s) placard.

- Section 391.37 Equivalent of written examination.

Subpart E—Physical Qualifications and Examinations

- Section 391.41 Physical qualifications for drivers.
(Section 391.41 is modified to state the following:)

A driver engaged in intrastate commerce who possesses a valid New Jersey Commercial Driver License (CDL) as of September 20, 1993, but who is not physically qualified to drive under Section 391.41(b) of the Subchapter may continue to drive a motor vehicle, unless the driver is transporting hazardous material(s) requiring hazardous material(s) placarding in accordance with Subpart F of Part 172 of the Hazardous Materials Regulations (49 C.F.R. § 172.500 et seq.), or is operating a vehicle displaying a hazardous material(s) placard.

- Section 391.43 Medical examination; certificate of physical examination.
Section 391.45 Persons who must be medically examined and certified.

- Section 391.47 Resolution of conflicts of medical evaluation.

- Section 391.49 Waiver of certain physical defects.
(Section 391.49(a) is revised to state the following:)

(a) A person who is not physically qualified to drive under Section 391.41(b)(1) or (2), and who is otherwise qualified to drive a motor vehicle, may drive a motor vehicle, if that person has been granted a waiver pursuant to 49, Code of Federal Regulations, Section 391.49.

Subpart F—Files and Records

- Section 391.51 Driver qualification files.

Subpart G—Limited Exemptions

- Section 391.61 Drivers who were regularly employed before January 1, 1971.
Section 391.63 Intermittent, casual, or occasional drivers.
Section 391.65 Drivers furnished by other motor carriers.
Section 391.67 Drivers of articulated (combination) farm vehicles.
Section 391.71 Intrastate drivers of vehicles transporting combustible liquids.
(Section 391.71(a) and (b) are revised to state the following:)

(a) The provisions of Section 391.11(b) (relating to minimum age), Section 391.21 (relating to application for employment), Section 391.23 (relating to investigations and inquiries), Section 391.31 (relating to road test), and Section 391.35 (relating to written examination) do not apply to a driver who is otherwise qualified and was a regularly employed driver (as defined in Section 390.5 of these regulations) as of January 1, 1991, who possesses a valid New Jersey Commercial Driver License (CDL), and continues to be a regularly employed driver of that motor carrier and drives a motor vehicle that:

1. Is transporting combustible liquids (as defined in Section 173.120(b) of this title), and
2. Is being operated in intrastate commerce.

(b) In addition to the exemptions provided in paragraph (a) of this section, a person who has been a regularly employed driver as defined in Section 390.5 as of January 1, 1991, but who is not physically qualified to drive under Section 391.41(b) and who is otherwise qualified under N.J.S.A. 39:3-10 to drive a motor vehicle, may continue to drive a motor vehicle provided that person is in possession of a valid New Jersey driver license issued prior to January 1, 1991, and continues to be a regularly employed driver of that motor carrier and drives a vehicle that:

1. Is a truck (as defined in Section 390.5 of this subchapter), and
2. Is operated in retail delivery service, and
3. Is transporting combustible liquids (as defined in Section 173.120(b) of this title), and
4. Is operated in intrastate commerce.

Subpart H—Controlled Substances Testing

Section 391.81 Purpose and scope.
 Section 391.83 Applicability.
 Section 391.85 Definitions.
 (Section 391.85 is revised to state the following:)

“Commercial Motor Vehicle—Intrastate Commerce” means a motor vehicle or combination of motor vehicles used or designed to transport passengers or property in intrastate comment:

(a) If the vehicle has a gross vehicle weight rating of 26,001 or more pounds or displays a gross vehicle weight rating of 26,001 or more pounds;

(b) If the vehicle has a gross combination weight rating of 26,001 or more pounds inclusive of a towed unit with a gross vehicle weight rating of more than 10,000 pounds;

(c) If the vehicle is designed to transport 16 or more passengers including the driver;

(d) If the vehicle is designed to transport 8 or more but less than 16 persons, including the driver, and is used to transport such persons for hire on a daily basis to and from places of employment; or

(e) If the vehicle is transporting or used in the transportation of hazardous material(s) and is required to be placarded in accordance with Subpart F of Part 172 of the Hazardous Materials Regulations (49 C.F.R. § 172.500 et seq.), or the vehicle displays a hazardous material(s) placard.

Section 391.87 Notification of test results and record-keeping.
 Section 391.89 Access to individual test results or test findings.
 Section 391.93 Implementation schedule.
 Section 391.95 Drug use prohibitions.
 Section 391.97 Prescribed drugs.
 Section 391.99 Reasonable cause testing requirements.
 Section 391.101 Reasonable cause testing procedures.
 Section 391.103 Pre-employment testing requirements.
 Section 391.105 Biennial testing requirements.
 Section 391.107 Pre-employment and Biennial testing procedures.
 Section 391.109 Random testing requirements.
 Section 391.111 Random testing procedures.
 Section 391.113 Post-accident testing requirements.
 Section 391.115 Post-accident testing procedures.
 Section 391.117 Disqualification.
 Section 391.119 Employee Assistance Program (EAP).
 Section 391.121 EAP training program.
 Section 391.123 After-care monitoring.
 Section 391.125 Termination schedule of this subpart.

PART 392—DRIVING OF MOTOR VEHICLES

Subpart A—General

Section 392.1 Scope of the rules in this part.
 Section 392.2 Applicable operating rules.
 Section 392.3 Ill or fatigued operator.
 Section 392.4 Drugs and other substances.
 Section 392.5 Intoxicating beverage.

Section 392.6 Schedules to conform with speed limits.
 Section 392.7 Equipment, inspection and use.
 Section 392.8 Emergency equipment, inspection, and use.
 Section 392.9 Safe loading.
 Section 392.9a Corrective lenses to be worn.
 Section 392.9b Hearing aid to be worn.

Subpart B—Driving of Vehicles

Section 392.10 Railroad grade crossings; stopping required.
 Section 392.11 Railroad grade crossings; slowing down required.
 Section 392.12 Drawbridges; stopping of buses.
 Section 392.13 Drawbridges; slowing down of other vehicles.
 Section 392.14 Hazardous conditions; extreme caution.
 Section 392.15 Required and prohibited use of turn signals.
 Section 392.16 Use of seat belts.
 Section 392.18 Slow moving vehicles; hazard warning signal flashers.

Subpart C—Stopped Vehicles

Section 392.20 Unattended vehicles; precautions.
 Section 392.21 Stopped vehicles not to interfere with other traffic.
 Section 392.22 Emergency signals; stopped vehicles.
 Section 392.24 Emergency signals; flame-producing.
 Section 392.25 Emergency signals; dangerous cargoes.

Subpart D—Use of Lighted Lamps and Reflectors

Section 392.30 Lighted lamps; moving vehicles.
 Section 392.31 Lighted lamps; stopped or parked vehicles.
 Section 392.32 Upper and lower head-lamp beams.
 Section 392.33 Obscured lamps or reflectors.

Subpart E—Accidents and License Revocation; Duties of Driver

Section 392.40 All accidents.
 Section 392.41 Striking unattended vehicle.
 Section 392.42 Notification of license revocation.

Subpart F—Fueling Precautions

Section 392.50 Ignition of fuel; prevention.
 Section 392.51 Reserve fuel.
 Section 392.52 Buses; fueling.

Subpart G—Prohibited practices

Section 392.60 Unauthorized persons not to be transported.
 Section 392.61 Driving by unauthorized person.
 Section 392.62 Bus driver; distraction.
 Section 392.63 Towing or pushing loaded buses.
 Section 392.64 Riding within closed vehicles without proper exits.
 Section 392.65 Sleeper berth; transfer to or from.
 Section 392.66 Carbon monoxide; use of vehicle when detected.
 Section 392.67 Heater, flame-producing; on vehicle in motion.
 Section 392.68 Motive power not to be disengaged.
 Section 392.69 Sleeper berth, occupation.
 Section 392.71 Radar detectors; use and/or possession.

PART 393—PARTS AND ACCESSORIES NECESSARY FOR SAFE OPERATION

Subpart A—General

- Section 393.1 Scope of the rules in this part.
- Section 393.3 Additional equipment and accessories.
- Section 393.5 Definitions.

Subpart B—Lighting Devices, Reflectors, and Electrical Equipment

- Section 393.9 Lamps operable.
- Section 393.11 Lighting devices and reflectors.
- Section 393.17 Lamps and reflectors—combinations in driveaway-towaway operation.
- Section 393.19 Requirements for turn signaling systems.
- Section 393.20 Clearance lamps to indicate extreme width and height.
- Section 393.22 Combination of lighting devices and reflectors.
- Section 393.23 Lighting devices to be electric.
- Section 393.24 Requirements for head lamps and auxiliary road lighting lamps.
- Section 393.25 Requirements for lamps other than head lamps.
- Section 393.26 Requirements for reflectors.
- Section 393.27 Wiring specifications.
- Section 393.28 Wiring to be protected.
- Section 393.29 Grounds.
- Section 393.30 Battery installation.
- Section 393.31 Overload protective devices.
- Section 393.32 Detachable electrical connections.
- Section 393.33 Wiring, installation.

Subpart C—Brakes

- Section 393.40 Required brake systems.
- Section 393.41 Parking brake system.
- Section 393.42 Brakes required on all wheels.
- Section 393.43 Breakaway and emergency braking.
- Section 393.44 Front brake lines, protection.
- Section 393.45 Brake tubing and hose, adequacy.
- Section 393.46 Brake tubing and hose connections.
- Section 393.47 Brake lining.
- Section 393.48 Brakes to be operative.
- Section 393.49 Single valve to operate all brakes.
- Section 393.50 Reservoirs required.
- Section 393.51 Warning devices and gauges.
- Section 393.52 Brake performance.

Subpart D—Glazing and Window Construction

- Section 393.60 Glazing in specified openings.
- Section 393.61 Window construction.
- Section 393.62 Window obstruction(s).
- Section 393.63 Windows, markings.

Subpart E—Fuel Systems

- Section 393.65 All fuel systems.
- Section 393.67 Liquid fuel tanks.
- Section 393.69 Liquefied petroleum gas systems.

Subpart F—Coupling Devices and Towing Methods

- Section 393.70 Coupling devices and towing methods, except for driveaway-towaway operations.
- Section 393.71 Coupling devices and towing methods, driveaway-towaway operations.

Subpart G—Miscellaneous Parts and Accessories

- Section 393.75 Tires.
- Section 393.76 Sleeper berths.
- Section 393.77 Heaters.
- Section 393.78 Windshield wipers.
- Section 393.79 Defrosting device.
- Section 393.80 Rear-vision mirrors.
- Section 393.82 Speedometer.
- Section 393.83 Exhaust systems.
- Section 393.84 Floors.
- Section 393.86 Rear end protection.
- Section 393.87 Flags on projecting loads.
- Section 393.88 Television receivers.
- Section 393.89 Buses, driveshaft protection.
- Section 393.90 Buses, standee line or bar.
- Section 393.91 Buses, aisle seats prohibited.
- Section 393.92 Buses, marking emergency doors.
- Section 393.93 Seats, seat belt assemblies, and seat belt assembly anchorages.
- Section 393.94 Vehicle interior noise levels.

Subpart H—Emergency Equipment

- Section 393.95 Emergency equipment on all power units.

Subpart I—Protection against Shifting or Falling Cargo

- Section 393.100 General rules for protection against shifting or falling cargo.
- Section 393.102 Securement systems.
- Section 393.104 Blocking and bracing.
- Section 393.106 Front-end structure.

Subpart J—Frames, Cab and Body Components, Wheels, Steering, and Suspension Systems

- Section 393.201 Frames.
- Section 393.203 Cab and body components.
- Section 393.205 Wheels.
- Section 393.207 Suspension systems.
- Section 393.209 Steering wheel systems.

PART 394—(RESERVED)

PART 395—HOURS OF SERVICE OF DRIVERS

- Section 395.1 Scope of rules in this part.
- Section 395.2 Definitions.
- Section 395.3 Maximum driving and on-duty time.
- Section 395.7 (Reserved)
- Section 395.8 Driver's record of duty status.
- Section 395.10 (Reserved)
- Section 395.11 (Reserved)
- Section 395.12 (Reserved)
- Section 395.13 Drivers declared out of service.
- Section 395.15 Automatic on-board recording devices.

PART 396—INSPECTION, REPAIR, AND MAINTENANCE

- Section 396.1 Scope.
- Section 396.3 Inspection, repair, and maintenance.
- Section 396.5 Lubrication.
- Section 396.7 Unsafe operations forbidden.
- Section 396.9 Inspection of motor vehicles in operation.
- Section 396.11 Driver vehicle inspection report(s).
- Section 396.13 Driver inspection.
- Section 396.15 Driveaway-towaway operations and inspections.
- Section 396.17 Periodic inspection.

- Section 396.19 Inspector qualifications.
- Section 396.21 Periodic inspection recordkeeping requirements.
- Section 396.23 Equivalent to periodic inspection.
- Section 396.25 Qualifications of brake inspectors.

PART 397—TRANSPORTATION OF HAZARDOUS MATERIALS; DRIVING AND PARKING RULES

- Section 397.1 Application of the rules in this part.
- Section 397.2 Compliance with Federal motor carrier safety regulations.
- Section 397.5 Attendance and surveillance of motor vehicles.
- Section 397.7 Parking.
- Section 397.9 Routes.
- Section 397.11 Fires.
- Section 397.13 Smoking.
- Section 397.15 Fueling.
- Section 397.17 Tires.
- Section 397.19 Instructions and documents.

Subpart D—Routing of Class 7 (Radioactive) Materials

- Section 397.101 Requirements for motor carriers and drivers.
- Section 397.103 Requirements for State routing designations.

Subpart E—Preemption Procedures

- Section 397.201 Purpose and scope of the procedures.
- Section 397.203 Standards for determining preemption.
- Section 397.205 Preemption application.
- Section 397.207 Preemption notice.
- Section 397.209 Preemption processing.
- Section 397.211 Preemption determination.
- Section 397.213 Waiver of preemption application.
- Section 397.215 Waiver notice.
- Section 397.217 Waiver processing.
- Section 397.219 Waiver determination and order.
- Section 397.221 Timeliness.
- Section 397.223 Petition for reconsideration.
- Section 397.225 Judicial review.

APPENDIX D TO SUBCHAPTER B—TABLE OF DISQUALIFYING DRUGS AND OTHER SUBSTANCES, SCHEDULE I

APPENDIX E TO SUBCHAPTER B—TABLES OF DISQUALIFYING DRUGS AND OTHER SUBSTANCES, SCHEDULES II THROUGH V

APPENDIX F TO SUBCHAPTER B—COMMERCIAL ZONES

- Section 1 New York, NY.
- Section 6 Philadelphia, PA.
- Section 11 Commercial zones of municipalities in New Jersey within 5 miles of New York, NY.
- Section 12 Commercial zones of municipalities in Westchester and Nassau Counties, NY.
- Section 43 Definitions.
- Section 44 Commercial zones determined generally, with exceptions.
- Section 45 Controlling distances and population data.

APPENDIX G TO SUBCHAPTER—MINIMUM PERIODIC INSPECTIONS STANDARDS

PART 177—CARRIAGE BY PUBLIC HIGHWAY (CONTINUED)

- Section 177.805 Canadian shipments and packagings.
- Section 177.806 U.S. Government material.
- Section 177.807 Reporting hazardous materials incidents. (Reporting requirements are as revised herein in Sections 171.15, 171.16, and 171.17.)
- Section 177.808 Connecting carrier shipments.
- Section 177.809 Carrier's material and supplies.
- Section 177.810 Vehicular tunnels.
- Section 177.811 Astray shipments.
- Section 177.812 Containers required.
- Section 177.813 Inefficient containers.
- Section 177.814 Retention of cargo tank motor vehicle manufacturer's certificate, maintenance and other reports.
- Section 177.815 Lost or destroyed labels.
- Section 177.816 Training.
- Section 177.817 Shipping papers.
- Section 177.818 Special instructions; Division 2.1 (flammable gas) materials that are cryogenic liquids.
- Section 177.821 Hazardous materials forbidden or limited for transportation.
- Section 177.822 Acceptable articles.
- Section 177.823 Marking and placarding motor vehicles.
- Section 177.824 Retesting and inspection of cargo tanks.
- Section 177.825 Routing and training requirements for Class 7 (radioactive) materials.
- Section 177.826 Carrier's registration statement; Division 2.1 (flammable gas) materials that are cryogenic liquids.

Subpart B—Loading and Unloading

- Section 177.834 General requirements.
- Section 177.835 Class 1 (explosive) materials.
- Section 177.836 Nonexplosive material.
- Section 177.837 Flammable liquids.
- Section 177.838 Class 4 (flammable solid) materials, Class 5 (oxidizing) materials, and Division 4.2 (pyrophoric liquid) materials.
- Section 177.839 Class 8 (corrosive) materials.
- Section 177.840 Class 2 (gases) materials.
- Section 177.841 Division 6.1 (poisonous) and Division 2.3 (poisonous gas) materials.
- Section 177.842 Class 7 (radioactive) material.
- Section 177.843 Contamination of vehicles.
- Section 177.844 Other regulated materials.

Subpart C—Segregation and Separation Chart of Hazardous Materials.

- Section 177.848 Segregation of hazardous materials.

Subpart D—Vehicles and Shipments in Transit; Accidents

- Section 177.853 Transportation and delivery of shipments.
- Section 177.854 Disabled vehicles and broken or leaking packages; repairs.
- Section 177.855 Accidents; Class 1 (explosive) materials.
- Section 177.856 Accidents; Class 3 (flammable liquid) materials.
- Section 177.857 Accidents; Class 4 (flammable solid) or Class 5 (oxidizing) materials.
- Section 177.858 Accidents; Class 8 (corrosive) materials.
- Section 177.859 Accidents; Class 2 (gases) materials.

Section 177.860 Accidents or leakage; Division 6.1 (poisonous) or Division 2.3 (poisonous gas) materials.

Section 177.861 Accidents; Class 7 (radioactive) materials.

Subpart E—Regulations Applying to Hazardous Material on Motor Vehicles Carrying Passengers for Hire

Section 177.870 Regulations for passenger carrying vehicles.

PART 178—SHIPPING CONTAINER SPECIFICATIONS

Section 178.1 Purpose and scope.

Section 178.2 Applicability and manufacturers' responsibility.

Section 178.3 Marking of packagings.

Subpart B—Specifications for Inside Containers, and Linings

Section 178.33 Specification 2P; inner nonrefillable metal receptacles.

Section 178.33-1 Compliance.

Section 178.33-2 Type and size.

Section 178.33-3 Inspection.

Section 178.33-4 Duties of inspector.

Section 178.33-5 Material.

Section 178.33-6 Manufacture.

Section 178.33-7 Wall thickness.

Section 178.33-8 Tests.

Section 178.33-9 Marking.

Section 178.33a Specification 2Q.

Section 178.33a-2 Type and size.

Section 178.33a-3 Inspection.

Section 178.33a-4 Duties of inspector.

Section 178.33a-5 Material.

Section 178.33a-6 Manufacture.

Section 178.33a-7 Wall thickness.

Section 178.33a-8 Tests.

Section 178.33a-9 Marking.

Subpart C—Specifications for Cylinders

Section 178.36 Specification 3A; seamless steel cylinders or 3AX; seamless steel cylinders of capacity over 1,000 pounds water volume.

Section 178.36-1 Compliance.

Section 178.36-2 Type, size and service pressure.

Section 178.36-3 Inspection by whom and where.

Section 178.36-4 Duties of inspector.

Section 178.36-5 Steel.

Section 178.36-6 Identification of material.

Section 178.36-7 Defects.

Section 178.36-8 Manufacture.

Section 178.36-9 Welding or brazing.

Section 178.36-10 Wall thickness.

Section 178.36-11 Heat treatment.

Section 178.36-12 Openings in cylinders and connections (valves, fuse plugs, etc.) for those openings.

Section 178.36-13 Safety devices and protection for valves, safety devices, and other connections, if applied.

Section 178.36-14 Hydrostatic test.

Section 178.36-15 Flattening test.

Section 178.36-16 Physical test.

Section 178.36-17 Acceptable results for physical and flattening tests.

Section 178.36-18 Leakage test.

Section 178.36-19 Rejected cylinders.

Section 178.36-20 Marking.

Section 178.36-21 Size of marks.

Section 178.36-22 Inspector's report.

Section 178.36-23 Report retention.

Section 178.37 Specification 3AA; seamless steel cylinders made of definitely prescribed steels or 3AAX; seamless steel cylinders made of definitely prescribed steels of capacity over 1,000 pounds water volume.

Section 178.37-1 Compliance.

Section 178.37-2 Type, size and service pressure.

Section 178.37-3 Inspection by whom and where.

Section 178.37-4 Duties of inspector.

Section 178.37-5 Authorized steel.

Section 178.37-6 Identification of material.

Section 178.37-7 Defects.

Section 178.37-8 Manufacture.

Section 178.37-9 Welding or brazing.

Section 178.37-10 Wall thickness.

Section 178.37-11 Heat treatment.

Section 178.37-12 Openings in cylinders and connections (valves, fuse plugs, etc.) for those openings.

Section 178.37-13 Safety devices and protection for valves, safety devices, and other connections, if applied.

Section 178.37-14 Hydrostatic test.

Section 178.37-15 Flattening test.

Section 178.37-16 Physical test.

Section 178.37-17 Physical and flattening tests.

Section 178.37-18 Leakage test.

Section 178.37-19 Rejected cylinders.

Section 178.37-20 Marking.

Section 178.37-21 Size of marks.

Section 178.37-22 Inspector's report.

Section 178.37-23 Report retention.

Section 178.38 Specification 3B; seamless steel cylinders.

Section 178.38-1 Compliance.

Section 178.38-2 Type, size and service pressure.

Section 178.38-3 Inspection by whom and where.

Section 178.38-4 Duties of inspector.

Section 178.38-5 Steel.

Section 178.38-6 Identification of material.

Section 178.38-7 Defects.

Section 178.38-8 Manufacture.

Section 178.38-9 Welding or brazing.

Section 178.38-10 Wall thickness.

Section 178.38-11 Heat treatment.

Section 178.38-12 Openings in cylinders and connections (valves, fuse plugs, etc.) for those openings.

Section 178.38-13 Safety devices and protection for valves, safety devices, and other connections, if applied.

Section 178.38-14 Hydrostatic test.

Section 178.38-15 Flattening test.

Section 178.38-16 Physical test.

Section 178.38-17 Acceptable results for physical and flattening tests.

Section 178.38-18 Leakage test.

Section 178.38-19 Rejected cylinders.

Section 178.38-20 Marking.

Section 178.38-21 Size of marks.

Section 178.38-22 Inspector's report.

Section 178.38-23 Report retention.

Section 178.39	Specification 3BN; seamless nickel cylinders.	Section 178.44-12	Openings in cylinders and connections (valves, fuse plugs, etc.) for those openings.
Section 178.39-1	Compliance.	Section 178.44-13	Safety devices and protection for valves, safety devices, and other connections, if applied.
Section 178.39-2	Type, size and service pressure.	Section 178.44-14	Hydrostatic test.
Section 178.39-3	Inspection by whom and where.	Section 178.44-15	Cycling test.
Section 178.39-4	Duties of inspector.	Section 178.44-16	Burst test.
Section 178.39-5	Nickel.	Section 178.44-17	Flattening test.
Section 178.39-6	Identification of material.	Section 178.44-18	Physical tests.
Section 178.39-7	Defects.	Section 178.44-19	Magnetic particle inspection.
Section 178.39-8	Manufacture.	Section 178.44-20	Leakage test.
Section 178.39-9	Welding or brazing.	Section 178.44-21	Acceptable results of tests.
Section 178.39-10	Wall thickness.	Section 178.44-22	Rejected cylinders.
Section 178.39-11	Heat treatment.	Section 178.44-23	Marking.
Section 178.39-12	Openings in cylinders and connections (valves, fuse plugs, etc.) for those openings.	Section 178.44-24	Name plates.
Section 178.39-13	Safety devices and protection for valves, safety devices, and other connections, if applied.	Section 178.44-25	Inspector's report.
Section 178.39-14	Hydrostatic test.	Section 178.44-26	Report retention.
Section 178.39-15	Flattening test.	Section 178.45	Specification 3T; seamless steel cylinders.
Section 178.39-16	Physical test.	Section 178.45-1	Compliance.
Section 178.39-17	Acceptable results for physical and flattening tests.	Section 178.45-2	Type, size and service pressure.
Section 178.39-18	Rejected cylinders.	Section 178.45-3	Inspection by whom and where.
Section 178.39-19	Marking.	Section 178.45-4	Duties of inspector.
Section 178.39-20	Size of marks.	Section 178.45-5	Material, steel.
Section 178.39-21	Inspector's report.	Section 178.45-6	Manufacture.
Section 178.39-22	Report retention.	Section 178.45-7	Wall thickness.
Section 178.42	Specification 3E; seamless steel cylinders.	Section 178.45-8	Heat treatment.
Section 178.42-1	Compliance.	Section 178.45-9	Openings.
Section 178.42-2	Type, size and service pressure.	Section 178.45-10	Safety devices and protection for valves, safety devices, and other connections.
Section 178.42-3	Inspection by whom and where.	Section 178.45-11	Hydrostatic test.
Section 178.42-4	Duties of inspector.	Section 178.45-12	Ultrasonic examinations.
Section 178.42-5	Steel.	Section 178.45-13	Basic requirements for tension and Charpy impact tests.
Section 178.42-6	Identification of steel.	Section 178.45-14	Basic conditions for acceptable physical testing.
Section 178.42-7	Defects.	Section 178.45-15	Acceptable physical test results.
Section 178.42-8	Manufacture.	Section 178.45-16	Rejected cylinders.
Section 178.42-9	Openings in cylinders and connections (valves, fuse plugs, etc.) for those openings.	Section 178.45-17	Markings.
Section 178.42-10	Safety devices and protection for valves, safety devices, and other connections, if applied.	Section 178.45-18	Inspector's report.
Section 178.42-11	Hydrostatic test.	Section 178.46	Specification 3AL; seamless cylinders made of definitely prescribed aluminum alloys.
Section 178.42-12	Leakage test.	Section 178.46-1	Each specification 3AL seamless cylinder must comply with this section.
Section 178.42-13	Rejected cylinders.	Section 178.46-2	Size and service pressure.
Section 178.42-14	Marking.	Section 178.46-3	Inspection.
Section 178.42-15	Inspector's report.	Section 178.46-4	Duties of inspector.
Section 178.42-16	Report retention.	Section 178.46-5	Authorized material and identification of material.
Section 178.44	Specification 3HT; inside containers, seamless steel cylinders for aircraft use made of definitely prescribed steel.	Section 178.46-6	Manufacture.
Section 178.44-1	Compliance.	Section 178.46-7	Wall thickness.
Section 178.44-2	Type, size and service pressure.	Section 178.46-8	Openings.
Section 178.44-3	Inspection by whom and where.	Section 178.46-9	Heat treatment.
Section 178.44-4	Duties of inspector.	Section 178.46-10	Pressure relief devices and protection for valves, pressure relief devices, and other connections.
Section 178.44-5	Authorized steel.	Section 178.46-11	Hydrostatic test.
Section 178.44-6	Identification of material.	Section 178.46-12	Flattening test.
Section 178.44-7	Defects.	Section 178.46-13	Mechanical properties test.
Section 178.44-8	Manufacture.	Section 178.46-14	Rejected cylinders.
Section 178.44-9	Welding or brazing.	Section 178.46-15	Marking.
Section 178.44-10	Wall thickness.	Section 178.46-16	Inspector's report.
Section 178.44-11	Heat treatment.	Section 178.47	Specification 4DS; inside containers, welded stainless steel for aircraft use.

Section 178.47-1	Compliance.	Section 178.51-12	Openings in cylinders.
Section 178.47-2	Type, size and service pressure.	Section 178.51-13	Pressure relief devices and protection for valves, safety devices, and other connections, if applied.
Section 178.47-3	Inspection by whom and where.	Section 178.51-14	Hydrostatic test.
Section 178.47-4	Duties of inspector.	Section 178.51-15	Physical test.
Section 178.47-5	Steel.	Section 178.51-16	Elongation.
Section 178.47-6	Identification of material.	Section 178.51-17	Tests of welds.
Section 178.47-7	Defects.	Section 178.51-18	Rejected cylinders.
Section 178.47-8	Manufacture.	Section 178.51-19	Marking.
Section 178.47-9	Attachments.	Section 178.51-20	Authorized steel.
Section 178.47-10	Wall thickness.	Section 178.51-21	Inspector's report.
Section 178.47-11	Heat treatment.	Section 178.51-22	Report retention.
Section 178.47-12	Openings in container.	Section 178.53	Specification 4D; inside containers, welded steel for aircraft use.
Section 178.47-13	Safety relief devices.	Section 178.53-1	Compliance.
Section 178.47-14	Process treatment.	Section 178.53-2	Type, size and service pressure.
Section 178.47-15	Hydrostatic test.	Section 178.53-3	Inspection by whom and where.
Section 178.47-16	Radiographic inspection.	Section 178.53-4	Duties of inspector.
Section 178.47-17	Burst test.	Section 178.53-5	Steel.
Section 178.47-18	Flattening test.	Section 178.53-6	Identification of material.
Section 178.47-19	Acceptable results for flattening and burst tests.	Section 178.53-7	Defects.
Section 178.47-20	Rejected containers.	Section 178.53-8	Manufacture.
Section 178.47-21	Marking.	Section 178.53-9	Wall thickness.
Section 178.47-22	Size of marks.	Section 178.53-10	Heat treatment.
Section 178.47-23	Inspector's report.	Section 178.53-11	Openings in container.
Section 178.47-24	Report retention.	Section 178.53-12	Safety devices and protection for valves, safety devices, and other connections, if applied.
Section 178.50	Specification 4B; welded and brazed steel cylinders.	Section 178.53-13	Hydrostatic test.
Section 178.50-1	Compliance.	Section 178.53-14	Flattening test for spheres and cylinders.
Section 178.50-2	Type, size and service pressure.	Section 178.53-15	Physical test and specimens for spheres and cylinders.
Section 178.50-3	Inspection by whom and where.	Section 178.53-16	Acceptable results for physical and flattening tests.
Section 178.50-4	Duties of inspector.	Section 178.53-17	Rejected cylinders.
Section 178.50-5	Steel.	Section 178.53-18	Marking.
Section 178.50-6	Identification of material.	Section 178.53-19	Size of marks.
Section 178.50-7	Defects.	Section 178.53-20	Inspector's report.
Section 178.50-8	Manufacture.	Section 178.53-21	Report retention.
Section 178.50-9	Welding or brazing.	Section 178.55	Specification 4B240ET; welded and brazed cylinders made from electric resistance welded tubing.
Section 178.50-10	Wall thickness.	Section 178.55-1	Compliance.
Section 178.50-11	Heat treatment.	Section 178.55-2	Type, spinning process, size and service pressure.
Section 178.50-12	Opening in cylinders.	Section 178.55-3	Inspection by whom and where.
Section 178.50-13	Safety devices and protection for valves, safety devices, and other connections, if applied.	Section 178.55-4	Duties of inspector.
Section 178.50-14	Hydrostatic test.	Section 178.55-5	Steel.
Section 178.50-15	Flattening test.	Section 178.55-6	Identification of material.
Section 178.50-16	Physical test.	Section 178.55-7	Defects.
Section 178.50-17	Acceptable results for physical and flattening tests.	Section 178.55-8	Manufacture.
Section 178.50-18	Rejected cylinders.	Section 178.55-9	Welding or brazing.
Section 178.50-19	Marking.	Section 178.55-10	Wall thickness.
Section 178.50-20	Size of marks.	Section 178.55-11	Heat treatment.
Section 178.50-21	Inspector's report.	Section 178.55-12	Openings in cylinders.
Section 178.50-22	Report retention.	Section 178.55-13	Safety devices and protection for valves, safety devices, and other connections, if applied.
Section 178.51	Specification 4BA; welded or brazed steel cylinders made of definitely prescribed steels.	Section 178.55-14	Hydrostatic test.
Section 178.51-1	Compliance.	Section 178.55-15	Flattening test.
Section 178.51-2	Type, size and service pressure.	Section 178.55-16	Physical test.
Section 178.51-3	Inspection by whom and where.	Section 178.55-17	Acceptable results for physical and flattening tests.
Section 178.51-4	Duties of inspector.	Section 178.55-18	Leakage test.
Section 178.51-5	Steel.	Section 178.55-19	Rejected cylinders.
Section 178.51-6	Identification of material.	Section 178.55-20	Marking.
Section 178.51-7	Defects.		
Section 178.51-8	Manufacture.		
Section 178.51-9	Welding and brazing.		
Section 178.51-10	Wall thickness.		
Section 178.51-11	Heat treatment.		

Section 178.55-21	Size of marks.	Section 178.58-9	Welding.
Section 178.55-22	Inspector's report.	Section 178.58-10	Wall thickness.
Section 178.55-23	Report retention.	Section 178.58-11	Heat treatment.
Section 178.56	Specification 4AA480; welded steel cylinders made of definitely prescribed steels.	Section 178.58-12	Openings in container.
Section 178.56-1	Compliance.	Section 178.58-13	Safety devices.
Section 178.56-2	Type, size and service pressure.	Section 178.58-14	Hydrostatic test.
Section 178.56-3	Inspection by whom and where.	Section 178.58-15	Burst test.
Section 178.56-4	Duties of inspector.	Section 178.58-16	Flattening test.
Section 178.56-5	Steel.	Section 178.58-17	Radiographic inspection.
Section 178.56-6	Identification of material.	Section 178.58-18	Physical test and specimens for spheres and cylinders.
Section 178.56-7	Defects.	Section 178.58-19	Acceptable results for physical, flattening, and burst tests.
Section 178.56-8	Manufacture.	Section 178.58-20	Rejected cylinders.
Section 178.56-9	Welding.	Section 178.58-21	Marking.
Section 178.56-10	Wall thickness.	Section 178.58-22	Size of marks.
Section 178.56-11	Heat treatment.	Section 178.58-23	Inspector's report.
Section 178.56-12	Openings in cylinders.	Section 178.58-24	Report retention.
Section 178.56-13	Safety devices and protection for valves, safety devices, and other connections, if applied.	Section 178.59	Specification 8; steel cylinders with approved porous filling for acetylene.
Section 178.56-14	Hydrostatic test.	Section 178.59-1	Compliance.
Section 178.56-15	Physical test.	Section 178.59-2	Type and service pressure.
Section 178.56-16	Elongation.	Section 178.59-3	Inspection by whom and where.
Section 178.56-17	Tests of welds.	Section 178.59-4	Steel.
Section 178.56-18	Rejected cylinders.	Section 178.59-5	Identification of steel.
Section 178.56-19	Marking.	Section 178.59-6	Defects.
Section 178.56-20	Authorized steel.	Section 178.59-7	Manufacture.
Section 178.56-21	Inspector's report.	Section 178.59-8	Exposed bottom welds.
Section 178.56-22	Report retention.	Section 178.59-9	Heat treatment.
Section 178.57	Specification 4L; welded cylinders insulated.	Section 178.59-10	Openings.
Section 178.57-1	Compliance.	Section 178.59-11	Safety devices and protection for valves, safety devices, and other connections.
Section 178.57-2	Type, size, service pressure, and design service temperature.	Section 178.59-12	Hydrostatic test.
Section 178.57-3	Inspection by whom and where.	Section 178.59-13	Leakage test.
Section 178.57-4	Duties of inspector.	Section 178.59-14	Physical test.
Section 178.57-5	Material.	Section 178.59-15	Rejected cylinders.
Section 178.57-6	Identification of material.	Section 178.59-16	Porous fillings.
Section 178.57-7	Defects.	Section 178.59-17	Tare weight.
Section 178.57-8	Manufacture.	Section 178.59-18	Marking.
Section 178.57-9	Welding.	Section 178.59-19	Size of marks.
Section 178.57-10	Wall thickness.	Section 178.59-20	Inspector's report.
Section 178.57-11	Heat treatment.	Section 178.59-21	Report retention.
Section 178.57-12	Openings in cylinder.	Section 178.60	Specification 8AL; steel cylinders with approved porous filling for acetylene.
Section 178.57-13	Pressure relief devices and pressure control valves.	Section 178.60-1	Compliance.
Section 178.57-14	Pressure test.	Section 178.60-2	Type and service pressure.
Section 178.57-15	Physical test.	Section 178.60-3	Inspection by whom and where.
Section 178.57-16	Acceptable results for physical tests.	Section 178.60-4	Authorized steel.
Section 178.57-17	Tests of welds.	Section 178.60-5	Identification of steel.
Section 178.57-18	Radiographic examination.	Section 178.60-6	Defects.
Section 178.57-19	Rejected cylinders.	Section 178.60-7	Manufacture.
Section 178.57-20	Marking.	Section 178.60-8	Footrings.
Section 178.57-21	Authorized materials of construction.	Section 178.60-9	Welding or brazing.
Section 178.57-22	Inspector's report.	Section 178.60-10	Wall thickness; wall stress.
Section 178.57-23	Report retention.	Section 178.60-11	Heat treatment.
Section 178.58	Specification 4DA; inside containers, welded steel for aircraft use.	Section 178.60-12	Openings.
Section 178.58-1	Compliance.	Section 178.60-13	Safety devices and protection for valves, safety devices, and other connections.
Section 178.58-2	Type, size and service pressure.	Section 178.60-14	Hydrostatic test.
Section 178.58-3	Inspection by whom and where.	Section 178.60-15	Leakage test.
Section 178.58-4	Duties of inspector.	Section 178.60-16	Physical test.
Section 178.58-5	Steel.	Section 178.60-17	Elongation.
Section 178.58-6	Identification of material.	Section 178.60-18	Weld tests.
Section 178.58-7	Defects.	Section 178.60-19	Rejected cylinders.
Section 178.58-8	Manufacture.	Section 178.60-20	Porous filling.
		Section 178.60-21	Tare weight.
		Section 178.60-22	Marking.

Section 178.60-23	Size of marks.	Section 178.68-16	Acceptable results for physical tests.
Section 178.60-24	Inspector's report.	Section 178.68-17	Weld tests.
Section 178.60-25	Report retention.	Section 178.68-18	Rejected cylinders.
Section 178.61	Specification 4BW; welded steel cylinders made of definitely prescribed steel with electric-arc welded longitudinal seam.	Section 178.68-19	Marking.
Section 178.61-1	Compliance.	Section 178.68-20	Inspector's report.
Section 178.61-2	Type, size and service pressure.	Section 178.68-21	Report retention.
Section 178.61-3	Inspection by whom and where.	Subpart H—Specifications for Portable Tanks	
Section 178.61-4	Duties of inspector.	Section 178.245	Specification 51; steel portable tanks.
Section 178.61-5	Authorized steel.	Section 178.245-1	Requirements for design and construction.
Section 178.61-6	Identification of material.	Section 178.245-2	Material.
Section 178.61-7	Defects.	Section 178.245-3	Design pressure.
Section 178.61-8	Manufacture.	Section 178.245-4	Tank mountings.
Section 178.61-9	Welding of attachments.	Section 178.245-5	Protection of valves and accessories.
Section 178.61-10	Wall thickness.	Section 178.245-6	Name plate.
Section 178.61-11	Heat treatment.	Section 178.245-7	Report.
Section 178.61-12	Openings in cylinders.	Section 178.251	General design and construction requirements applicable to specifications 56 (Section 178.252) and 57 portable tanks (Section 178.253).
Section 178.61-13	Safety relief devices and protection for valves, safety devices, and other connections, if applied.	Section 178.251-1	General requirements.
Section 178.61-14	Hydrostatic test.	Section 178.251-2	Materials of construction.
Section 178.61-15	Physical tests.	Section 178.251-3	General construction requirements.
Section 178.61-16	Elongation.	Section 178.251-4	Stacking, mounting, and tie-down provisions.
Section 178.61-17	Tests of welds.	Section 178.251-5	Testing.
Section 178.61-18	Radiographic examination.	Section 178.251-6	Rejected tanks.
Section 178.61-19	Rejected cylinders.	Section 178.251-7	Identification and marking.
Section 178.61-20	Marking.	Section 178.252	Specification 56; metal portable tank.
Section 178.61-21	Inspector's report.	Section 178.252-1	General requirements.
Section 178.61-22	Report retention.	Section 178.252-2	Openings.
Section 178.65	Specification 39; non-reusable (non-refillable) cylinder.	Section 178.252-3	Testing.
Section 178.65-1	Compliance.	Section 178.253	Specification 57; metal portable tanks.
Section 178.65-2	Type, size, service pressure, and test pressure.	Section 178.253-1	General requirements.
Section 178.65-3	Inspection by whom and where.	Section 178.253-2	Openings.
Section 178.65-4	Duties of inspector.	Section 178.253-3	Protection of fittings.
Section 178.65-5	Material; steel or aluminum.	Section 178.253-4	Vents.
Section 178.65-6	Manufacture.	Section 178.253-5	Testing.
Section 178.65-7	Wall thickness.	Section 178.255	Specification 60; steel portable tanks.
Section 178.65-9	Openings and attachments.	Section 178.255-1	General requirements.
Section 178.65-10	Safety devices.	Section 178.255-2	Material.
Section 178.65-11	Pressure tests.	Section 178.255-3	Expansion domes.
Section 178.65-12	Flattening test.	Section 178.255-4	Closure for manholes and domes.
Section 178.65-13	Rejected cylinders.	Section 178.255-5	Bottom discharge outlets.
Section 178.65-14	Markings.	Section 178.255-6	Loading and unloading accessories.
Section 178.65-15	Inspector's report.	Section 178.255-7	Protection of valves and accessories.
Section 178.68	Specification 4E; welded aluminum cylinders.	Section 178.255-8	Safety devices.
Section 178.68-1	Compliance.	Section 178.255-9	Compartments.
Section 178.68-2	Type, size and service pressure.	Section 178.255-10	Lining.
Section 178.68-3	Inspection by whom and where.	Section 178.255-11	Tank mountings.
Section 178.68-4	Duties of inspector.	Section 178.255-12	Pressure test.
Section 178.68-5	Aluminum.	Section 178.255-13	Repair of tanks.
Section 178.68-6	Identification of material.	Section 178.255-14	Marking.
Section 178.68-7	Defects.	Section 178.255-15	Report.
Section 178.68-8	Manufacture.	Section 178.270	Specification IM 101 and IM 102 steel portable tanks; general design and construction requirements.
Section 178.68-9	Welding.	Section 178.270-1	Specification requirements for IM 101 and IM 102 steel portable tanks.
Section 178.68-10	Wall thickness.	Section 178.270-2	General.
Section 178.68-11	Opening in cylinder.	Section 178.270-3	Materials of construction.
Section 178.68-12	Safety devices and protection for valves, safety devices, and other connections, if applied.	Section 178.270-4	Structural integrity.
Section 178.68-13	Hydrostatic test.	Section 178.270-5	Minimum thickness of shells and heads.
Section 178.68-14	Flattening test.	Section 178.270-6	Tank supports, frameworks and lifting attachments.
Section 178.68-15	Physical test.	Section 178.270-7	Joints in tank shells.

- Section 178.270-8 Protection of valves and accessories.
- Section 178.270-9 Inspection openings.
- Section 178.270-10 External design pressure.
- Section 178.270-11 Pressure and vacuum relief devices.
- Section 178.270-12 Valves, nozzles, piping, and gauging devices.
- Section 178.270-13 Testing.
- Section 178.270-14 Marking of tanks.
- Section 178.271 Specification IM 101 steel portable tanks.
- Section 178.271-1 General requirements.
- Section 178.272 Specification IM 102 steel portable tanks.
- Section 178.272-1 General requirements.
- Section 178.272-2 Minimum thickness of shells and heads.

Subpart J—Specifications for Containers for Motor Vehicle Transportation

- Section 178.315 Specification MC 200; containers for liquid nitroglycerin, desensitized liquid nitroglycerin or diethylene glycol dinitrate.
- Section 178.315-1 Motor vehicle body.
- Section 178.315-2 Body proper.
- Section 178.315-3 Cellular construction.
- Section 178.315-4 Inside containers and boots.
- Section 178.315-5 Marking.
- Section 178.318 Specification MC 201; container for detonators and percussion caps.
- Section 178.318-1 Scope.
- Section 178.318-2 Container.
- Section 178.318-3 Cellular construction.
- Section 178.318-4 Marking.
- Section 178.320 General requirements applicable to all DOT specification cargo tank motor vehicles.
- Section 178.337 Specification MC 331; cargo tank motor vehicle primarily for transportation of compressed gases as defined in Subpart G of Part 173 of this subchapter.
- Section 178.337-1 General requirements.
- Section 178.337-2 Material.
- Section 178.337-3 Structural integrity.
- Section 178.337-4 Joints.
- Section 178.337-5 Bulkheads, baffles and ring stiffeners.
- Section 178.337-6 Closure for manhole.
- Section 178.337-7 Overturn protection.
- Section 178.337-8 Outlets.
- Section 178.337-9 Pressure relief devices, piping, valves, hoses, and fittings.
- Section 178.337-10 Protection of fittings.
- Section 178.337-11 Emergency discharge control.
- Section 178.337-12 Shear section.
- Section 178.337-13 Supporting and anchoring.
- Section 178.337-14 Gauging devices.
- Section 178.337-15 Pumps and compressors.
- Section 178.337-16 Testing.
- Section 178.337-17 Marking.
- Section 178.337-18 Certification.
- Section 178.338 Specification MC 338; insulated cargo tank.
- Section 178.338-1 General requirements.
- Section 178.338-2 Material.
- Section 178.338-3 Structural integrity.
- Section 178.338-4 Joints.
- Section 178.338-5 Stiffening rings.
- Section 178.338-6 Manholes.

- Section 178.338-7 Openings.
- Section 178.338-8 Pressure relief devices, piping, valves, and fittings.
- Section 178.338-9 Holding time.
- Section 178.338-10 Collision damage protection.
- Section 178.338-11 Discharge control devices.
- Section 178.338-12 Shear section.
- Section 178.338-13 Supports and anchoring.
- Section 178.338-14 Gauging devices.
- Section 178.338-15 Cleanliness.
- Section 178.338-16 Inspection and testing.
- Section 178.338-17 Pumps and compressors.
- Section 178.338-18 Marking.
- Section 178.338-19 Certification.
- Section 178.340 (Reserved)
- Section 178.341 (Reserved)
- Section 178.342 (Reserved)
- Section 178.343 (Reserved)
- Section 178.345 General design and construction requirements applicable to Specifications DOT 406 (Section 178.346), DOT 407 (Section 178.347), and DOT 412 (Section 178.348) cargo tank motor vehicles.
- Section 178.345-1 General requirements.
- Section 178.345-2 Material and material thickness.
- Section 178.345-3 Structural integrity.
- Section 178.345-4 Joints.
- Section 178.345-5 Manhole assemblies.
- Section 178.345-6 Supports and anchoring.
- Section 178.345-7 Circumferential reinforcements.
- Section 178.345-8 Accident damage protection.
- Section 178.345-9 Pumps, piping, hoses and connections.
- Section 178.345-10 Pressure relief.
- Section 178.345-11 Tank outlets.
- Section 178.345-12 Gauging devices.
- Section 178.345-13 Pressure and leakage tests.
- Section 178.345-14 Marking.
- Section 178.345-15 Certification.
- Section 178.346 Specification DOT 406; cargo tank motor vehicle.
- Section 178.346-1 General requirements.
- Section 178.346-2 Material and thickness of material.
- Section 178.346-3 Structural integrity.
- Section 178.346-4 Joints.
- Section 178.346-5 Manhole assemblies.
- Section 178.346-6 Supports and anchoring.
- Section 178.346-7 Circumferential reinforcements.
- Section 178.346-8 Accident damage protection.
- Section 178.346-9 Pumps, piping, hoses and connections.
- Section 178.346-10 Pressure relief.
- Section 178.346-11 Outlets.
- Section 178.346-12 Gauging devices.
- Section 178.346-13 Pressure and leakage tests.
- Section 178.346-14 Marking.
- Section 178.346-15 Certification.
- Section 178.347 Specification DOT 407; cargo tank motor vehicle.
- Section 178.347-1 General requirements.
- Section 178.347-2 Material and thickness of material.
- Section 178.347-3 Structural integrity.
- Section 178.347-4 Joints.
- Section 178.347-5 Manhole assemblies.
- Section 178.347-6 Supports and anchoring.
- Section 178.347-7 Circumferential reinforcements.
- Section 178.347-8 Accident damage protection.
- Section 178.347-9 Pumps, piping, hoses and connections.
- Section 178.347-10 Pressure relief.

Section 178.347-11 Outlets.
 Section 178.347-12 Gauging devices.
 Section 178.347-13 Pressure and leakage tests.
 Section 178.347-14 Marking.
 Section 178.347-15 Certification.
 Section 178.348 Specification DOT 412; cargo tank motor vehicle.
 Section 178.348-1 General requirements.
 Section 178.348-2 Material and thickness of material.
 Section 178.348-3 Structural integrity.
 Section 178.348-4 Joints.
 Section 178.348-5 Manhole assemblies.
 Section 178.348-6 Supports and anchoring.
 Section 178.348-7 Circumferential reinforcements.
 Section 178.348-8 Accident damage protection.
 Section 178.348-9 Pumps, piping, hoses and connections.
 Section 178.348-10 Pressure relief.
 Section 178.348-11 Outlets.
 Section 178.348-12 Gauging devices.
 Section 178.348-13 Pressure and leakage tests.
 Section 178.348-14 Marking.
 Section 178.348-15 Certification.

Subpart K—Specifications for Packagings for Class 7 (Radioactive) Materials

Section 178.350 Specification 7A; general packaging, Type A.
 Section 178.350-1 General requirements.
 Section 178.350-2 Specific requirements.
 Section 178.350-3 Marking.
 Section 178.352 Specification 6L; metal packaging.
 Section 178.352-1 General requirements.
 Section 178.352-2 Rated capacity.
 Section 178.352-3 General construction requirements.
 Section 178.352-4 Welding.
 Section 178.352-5 Closure.
 Section 178.352-6 Markings.
 Section 178.354 Specification 6M; metal packaging.
 Section 178.354-1 General requirements.
 Section 178.354-2 Rated capacity.
 Section 178.354-3 General construction requirements.
 Section 178.354-4 Closure.
 Section 178.354-5 Markings.
 Section 178.356 Specification 20PF phenolic-foam insulated, metal overpack.
 Section 178.356-1 General requirements.
 Section 178.356-2 Materials of construction and other requirements.
 Section 178.356-3 Tests.
 Section 178.356-4 Required markings.
 Section 178.356-5 Typical assembly detail.
 Section 178.358 Specification 21PF fire and shock resistant, phenolic-foam insulated, metal overpack.
 Section 178.358-1 General requirements.
 Section 178.358-2 Materials of construction and other requirements.
 Section 178.358-3 Modification of specification 21PF-1 overpacks.
 Section 178.358-4 Construction of specification 21PF-1 overpacks.
 Section 178.358-5 Required markings.
 Section 178.358-6 Typical assembly detail.
 Section 178.360 Specification 2R; inside containment vessel.
 Section 178.360-1 General requirements.
 Section 178.360-2 Manufacture.

Section 178.360-3 Dimensions.
 Section 178.360-4 Closure devices.
 Section 178.362 Specification 20WC wooden protective jacket.
 Section 178.362-1 General requirements.
 Section 178.362-2 Materials of construction.
 Section 178.362-3 Closure.
 Section 178.362-4 Tests.
 Section 178.362-5 Painting.
 Section 178.362-6 Marking.
 Section 178.362-7 Typical assembly sketches.
 Section 178.364 Specification 21WC wooden-steel protective overpack.
 Section 178.364-1 General requirements.
 Section 178.364-2 Materials of construction and other requirements.
 Section 178.364-3 Closure.
 Section 178.364-4 Tests.
 Section 178.364-5 Required marking.
 Section 178.364-6 Typical assembly detail.

Subpart L—Non-bulk Performance-oriented Packaging Standards

Section 178.500 Purpose, scope and definitions.
 Section 178.502 Identification codes for packagings.
 Section 178.503 Marking of packagings.
 Section 178.504 Standards for steel drums.
 Section 178.505 Standards for aluminum drums.
 Section 178.506 Standards for metal drums other than steel or aluminum.
 Section 178.507 Standards for plywood drums.
 Section 178.508 Standards for fiber drums.
 Section 178.509 Standards for plastic drums and jerrycans.
 Section 178.510 Standards for wooden barrels.
 Section 178.511 Standards for steel jerrycans.
 Section 178.512 Standards for steel or aluminum boxes.
 Section 178.513 Standards for boxes of natural wood.
 Section 178.514 Standards for plywood boxes.
 Section 178.515 Standards for reconstituted wood boxes.
 Section 178.516 Standards for fiberboard boxes.
 Section 178.517 Standards for plastic boxes.
 Section 178.518 Standards for woven plastic bags.
 Section 178.519 Standards for plastic film bags.
 Section 178.520 Standards for textile bags.
 Section 178.521 Standards for paper bags.
 Section 178.522 Standards for composite packagings with inner plastic receptacles.
 Section 178.523 Standards for composite packagings with inner glass, porcelain, or stoneware receptacles.

Subpart M—Testing of Non-bulk Packagings and Packages

Section 178.600 Purpose and scope.
 Section 178.601 General requirements.
 Section 178.602 Preparation of packagings and packages for testing.
 Section 178.603 Drop test.
 Section 178.604 Leakproofness test.
 Section 178.605 Hydrostatic pressure test.
 Section 178.606 Stacking test.
 Section 178.607 Cooperage test for bung-type wooden barrels.
 Section 178.608 Vibration standard.
 Section 178.609 Test requirements for packagings for infectious substances (etiologic agents).

Appendix A—Specifications for Steel

Appendix B—Alternative Leakproofness Test Methods

PART 179—SPECIFICATIONS FOR TANK CARS

Subpart A—Introduction, Approvals, and Reports

- Section 179.1 General.
- Section 179.2 Definitions and abbreviations.
- Section 179.3 Procedure for securing approval.
- Section 179.4 Changes in specifications for tank cars.
- Section 179.5 Certificate of construction.
- Section 179.6 Repairs and alterations.

Subpart B—General Design Requirements

- Section 179.10 Tank mounting.
- Section 179.11 Welding certification.
- Section 179.12 Interior heater systems.
 - Section 179.12-1 General.
 - Section 179.12-2 Materials and dimensions.
 - Section 179.12-3 Joints and fittings.
 - Section 179.12-4 Application to tank.
 - Section 179.12-5 Tests.
 - Section 179.12-6 Reports.
 - Section 179.12-7 Stenciling.
- Section 179.13 Tank car capacity and gross weight limitation.
- Section 179.14 Coupler vertical restraint system.

Subpart C—Specifications for Pressure Tank Car Tanks (Classes DOT—105, 109, 112 and 114)

- Section 179.100 General specification applicable to pressure tank car tanks.
- Section 179.100-1 Tanks built under these specifications shall comply with the requirements of §§ 179.100, 179.101 and when applicable, §§ 179.102, 179.103, and 179.104.
 - Section 179.100-2 Approval.
 - Section 179.100-3 Type.
 - Section 179.100-4 Insulation.
 - Section 179.100-5 Bursting pressure.
 - Section 179.100-6 Thickness of plates.
 - Section 179.100-7 Materials.
 - Section 179.100-8 Tank heads.
 - Section 179.100-9 Welding.
 - Section 179.100-10 Postweld heat treatment.
 - Section 179.100-11 Tank mounting.
 - Section 179.100-12 Manway nozzle, cover and protective housing.
 - Section 179.100-13 Venting, loading and unloading valves, measuring and sampling devices.
 - Section 179.100-14 Bottom outlets.
 - Section 179.100-15 Safety relief valves.
 - Section 179.100-16 Attachments.
 - Section 179.100-17 Closures for openings.
 - Section 179.100-18 Test of tanks.
 - Section 179.100-19 Tests of safety relief valves.
 - Section 179.100-20 Stamping.
 - Section 179.100-21 Stenciling.
 - Section 179.100-22 Certificate of construction.
 - Section 179.100-23 Alternative requirements for tank head puncture resistance systems.
- Section 179.101 Individual specification requirements applicable to pressure tank cars.
- Section 179.101-1 Individual specification requirements.
- Section 179.102 Special commodity requirements for pressure tank car tanks.

- Section 179.102-1 Carbon dioxide, refrigerated liquid.
- Section 179.102-2 Chlorine.
- Section 179.102-4 Vinyl fluoride, inhibited.
- Section 179.102-5 to 179.102-16 (Removed.)
- Section 179.102-17 Hydrogen chloride, refrigerated liquid.
- Section 179.103 Special requirements for class 114A*** tank car tanks.
 - Section 179.103-1 Type.
 - Section 179.103-2 Manway cover.
 - Section 179.103-3 Venting, loading and unloading valves, measuring and sampling devices.
 - Section 179.103-4 Safety relief devices and pressure regulators.
 - Section 179.103-5 Bottom outlets.
- Section 179.104 Special requirements for spec. 105 A200-F tank car tanks.
 - Section 179.104-1 Tanks built under these specifications must meet the requirements of §§ 179.100, and 179.101, and when applicable, §§ 179.102 and 179.104.
 - Section 179.104-2 Type.
 - Section 179.104-3 Tank mounting.
 - Section 179.104-4 Welding.
 - Section 179.105 Special requirements for Specification 105S, 105J, 111J, 112S, 112J, 112T, 114S, 114J and 114T tank cars.
 - Section 179.105-1 General.
 - Section 179.105-4 Thermal protection.
 - Section 179.105-5 Tank head puncture resistance.
 - Section 179.105-7 Safety relief valves.
 - Section 179.105-8 Stenciling.

Subpart D—Specifications for Nonpressure Tank Car Tanks (Classes DOT—103, 104, 111AF, 111AW, and 115AW)

- Section 179.200 General specifications applicable to nonpressure tank car tanks (Classes DOT—103, 104, and 111).
 - Section 179.200-1 Tanks built under these specifications must meet the requirements of §§ 179.200, 179.201 and when applicable § 179.202.
 - Section 179.200-2 Approval.
 - Section 179.200-3 Type.
 - Section 179.200-4 Insulation.
 - Section 179.200-5 Bursting pressure.
 - Section 179.200-6 Thickness of plates.
 - Section 179.200-7 Materials.
 - Section 179.200-8 Tank heads.
 - Section 179.200-9 Compartment tanks.
 - Section 179.200-10 Welding.
 - Section 179.200-11 Postweld heat treatment.
 - Section 179.200-12 Tank mounting.
 - Section 179.200-13 Manway ring or flange, safety relief device flange, bottom outlet nozzle flange, bottom washout nozzle flange and other attachments and openings.
 - Section 179.200-14 Expansion capacity.
 - Section 179.200-15 Closures for manways.
 - Section 179.200-16 Gauging devices, top loading and unloading devices, venting and air inlet devices.
 - Section 179.200-17 Bottom outlets.
 - Section 179.200-18 Safety relief devices.
 - Section 179.200-19 Reinforcements, when used, and appurtenances not otherwise specified.
 - Section 179.200-20 Interior heater systems.

- Section 179.200-21 Closures for openings.
 Section 179.200-22 Test of tanks.
 Section 179.200-23 Tests of safety relief devices.
 Section 179.200-24 Stamping.
 Section 179.200-25 Stenciling.
 Section 179.200-26 Certificate of construction.
 Section 179.200-27 Alternative requirements for tank head puncture resistance systems.
- Section 179.201 Individual specification requirements applicable to non-pressure tank car tanks.
- Section 179.201-1 Individual specification requirements.
 Section 179.201-2 Minimum plate thickness.
 Section 179.201-3 Lined tanks.
 Section 179.201-4 Material.
 Section 179.201-5 Postweld heat treatment and corrosion resistance.
 Section 179.201-6 Manways and manway closures.
 Section 179.201-7 Safety relief devices.
 Section 179.201-8 Sampling device and thermometer well.
 Section 179.201-9 Gauging device.
 Section 179.201-10 Water capacity marking.
 Section 179.201-11 Insulation.
 Section 179.203 Special requirements for specification 111 tank cars.
- Section 179.203-1 General.
 Section 179.203-2 Previously built cars.
 Section 179.203-3 Stenciling.
- Section 179.220 General specifications applicable to non-pressure tank car tanks consisting of an inner container supported within an outer shell (class DOT-115).
- Section 179.220-1 Tanks built under these specifications must meet the requirements §§ 179.220, 179.221, and 179.222.
- Section 179.220-2 Approval.
 Section 179.220-3 Type.
 Section 179.220-4 Insulation.
 Section 179.220-5 Bursting pressure.
 Section 179.220-6 Thickness of plates.
 Section 179.220-7 Materials.
 Section 179.220-8 Tank heads.
 Section 179.220-9 Compartment tanks.
 Section 179.220-10 Welding.
 Section 179.220-11 Postweld heat treatment.
 Section 179.220-12 Tank mounting.
 Section 179.220-13 Inner container manway nozzle and cover.
- Section 179.220-14 Openings in the tank.
 Section 179.220-15 Support system for inner container.
 Section 179.220-16 Expansion capacity.
 Section 179.220-17 Gauging devices, top loading and unloading devices, venting and air inlet devices.
- Section 179.220-18 Bottom outlets.
 Section 179.220-19 Safety relief devices.
 Section 179.220-20 Reinforcements, when used, and appurtenances not otherwise specified.
- Section 179.220-21 Interior heating system.
 Section 179.220-22 Closure for openings.
 Section 179.220-23 Test of tanks.
 Section 179.220-24 Tests of safety relief valves.
 Section 179.220-25 Stamping.
 Section 179.220-26 Stenciling.
 Section 179.220-27 Certificate of construction.
 Section 179.221 Individual specification requirements applicable to tank car tanks consisting of an inner container supported within an outer shell.
- Section 179.221-1 Individual specification requirements.
 Section 179.222 Special commodity requirements for DOT-115A tank car tanks.
 Section 179.222-1 Chloroprene.
- Subpart E—Specifications for Multi-Unit Tank Car Tanks (Classes DOT-106A and 110AW)
- Section 179.300 General specifications applicable to multi-unit tank car tanks designed to be removed from car structure for filling and emptying (classes DOT-106A and 110AW).
- Section 179.300-1 Tanks built under these specifications shall meet the requirements of § 179.300, § 179.301 and when applicable, § 179.302.
- Section 179.300-2 Approval.
 Section 179.300-3 Type and general requirements.
 Section 179.300-4 Insulation.
 Section 179.300-5 Bursting pressure.
 Section 179.300-6 Thickness of plates.
 Section 179.300-7 Materials.
 Section 179.300-8 Tank heads.
 Section 179.300-9 Welding.
 Section 179.300-10 Postweld heat treatment.
 Section 179.300-11 Tank mounting.
 Section 179.300-12 Protection of fittings.
 Section 179.300-13 Venting, loading and unloading valves.
 Section 179.300-14 Attachments not otherwise specified.
 Section 179.300-15 Safety relief devices.
 Section 179.300-16 Tests of tanks.
 Section 179.300-17 Tests of safety relief devices.
 Section 179.300-18 Stamping.
 Section 179.300-19 Inspection.
 Section 179.300-20 Reports.
 Section 179.301 Individual specification requirements for multi-unit tank car tanks.
- Subpart F—Specification for Cryogenic Liquid Tank Car Tanks and Seamless Steel Tanks (Classes DOT-113 and 107A).
- Section 179.400 General specification applicable to cryogenic liquid tank car tanks.
- Section 179.400-1 General.
 Section 179.400-2 Approval.
 Section 179.400-3 Type.
 Section 179.400-4 Insulation system and performance standard.
 Section 179.400-5 Materials.
 Section 179.400-6 Bursting and buckling pressure.
 Section 179.400-7 Tank heads.
 Section 179.400-8 Thickness of plates.
 Section 179.400-9 Stiffening rings.
 Section 179.400-10 Sump of siphon bowl.
 Section 179.400-11 Welding.
 Section 179.400-12 Postweld heat treatment.
 Section 179.400-13 Support system for inner tank.
 Section 179.400-14 Cleaning of inner tank.
 Section 179.400-15 Radioscopy.
 Section 179.400-16 Access to inner tank.
 Section 179.400-17 Inner tank piping.
 Section 179.400-18 Test of inner tank.
 Section 179.400-19 Valves and gauges.
 Section 179.400-20 Pressure relief devices.
 Section 179.400-21 Test of pressure relief valves.

- Section 179.400-22 Protective housings.
- Section 179.400-23 Operating instructions.
- Section 179.400-24 Stamping.
- Section 179.400-25 Stenciling.
- Section 179.400-26 Certificate of construction.
- Section 179.401 Individual specification requirements applicable to inner tanks for cryogenic liquid tank car tanks.
- Section 179.401-1 Individual specification requirements.
- Section 179.500 Specification DOT-107A**** seamless steel tank car tanks.
- Section 179.500-1 Tanks built under these specifications shall meet the requirements of § 179.500.
- Section 179.500-2 Approval.
- Section 179.500-3 Type and general requirements.
- Section 179.500-4 Thickness of wall.
- Section 179.500-5 Material.
- Section 179.500-6 Heat treatment.
- Section 179.500-7 Physical tests.
- Section 179.500-8 Openings in tanks.
- Section 179.500-9 Tank mounting.
- Section 179.500-10 Protective housing.
- Section 179.500-11 Loading and unloading valves.
- Section 179.500-12 Safety relief devices.
- Section 179.500-13 Fixtures.
- Section 179.500-14 Test of tanks.
- Section 179.500-15 Handling of tanks failing in tests.
- Section 179.500-16 Tests of safety relief devices.
- Section 179.500-17 Marking.
- Section 179.500-18 Inspection and reports.

PART 180—CONTINUING QUALIFICATION AND MAINTENANCE OF PACKAGINGS

Subpart A—General

- Section 180.1 Purpose and scope.

- Section 180.2 Applicability.
- Section 180.3 General requirements.

Subpart E—Qualification and Maintenance of Cargo Tanks

- Section 180.401 Applicability.
- Section 180.403 Definitions.
- Section 180.405 Qualification of cargo tanks.
- Section 180.407 Requirements for test and inspection of specification cargo tanks.
- Section 180.409 Minimum qualifications for inspectors and testers.
- Section 180.411 Acceptable results of tests and inspections.
- Section 180.413 Repair, modifications, stretching, or rebarrelling of cargo tanks.
- Section 180.415 Test and inspection markings.
- Section 180.417 Reporting and record retention requirements.

Amended by R.1986 d.447, effective November 3, 1986.

See: 18 N.J.R. 1791(a), 18 N.J.R. 2212(b).

Amended by R.1989 d.101, effective February 21, 1989.

See: 20 N.J.R. 3005(a), 21 N.J.R. 456(a).

Substantially amended.

Amended by R.1990 d.550, effective November 19, 1990.

See: 22 N.J.R. 2676(a), 22 N.J.R. 3500(c).

Reporting requirements of Section 171.15, 171.16 revised; cargo tanks added to Section 172.331; 172 Subpart G added; driver qualifications of Sections 391.49 and 391.71 revised; 391 Subpart H (Controlled Substances Testing), 393 Subpart J, 395.15, 396.17, 396.19, 396.21, 396.23, Minimum Periodic Inspection Standards, Part 180, A and E added; revisions throughout to conform to current Federal cites.

Amended by R.1991 d.485, effective October 7, 1991.

See: 23 N.J.R. 2102(a), 23 N.J.R. 3037(c).

Exception applies only to waived drivers.

Amended by R.1993 d.235, effective June 7, 1993.

See: 25 N.J.R. 1065(a), 25 N.J.R. 2497(a).

Amended by R.1995 d.74, effective February 6, 1995.

See: 26 N.J.R. 4488(b), 27 N.J.R. 509(a).