

November 12, 2014



U.S. Department  
of Transportation

East Building, PHH - 30  
1200 New Jersey Avenue, Southeast  
Washington, D.C. 20590

**Pipeline and Hazardous  
Materials Safety Administration**

DOT-SP 15955

EXPIRATION DATE: August 31, 2016

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Thompson Tank, Inc.  
Lakewood, CA
2. PURPOSE AND LIMITATIONS:
  - a. This special permit authorizes the manufacture, mark, sale and use of non-DOT specification cargo tanks that conform with all regulations applicable to a DOT Specification 407/412 except that they are manufactured to ASME Section XII and stamped with a "T" Stamp, for the transportation in commerce of the materials authorized by this special permit. This special permit provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein. The most recent revision supersedes all previous revisions.
  - b. The safety analyses performed in development of this special permit only considered the hazards and risks associated with transportation in commerce. The safety analyses did not consider the hazards and risks associated with consumer use, use as a component of a transport vehicle or other device, or other uses not associated with transportation in commerce.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§ 173.315, 178.345, 178.347, 178.348 and Part 180, Subpart E in that non-DOT specification cargo tanks are not authorized, except as provided herein.

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5. BASIS: This special permit is based on the application of Thompson Tank, Inc. dated July 20, 2013, and additional information of November 20, 2013 submitted in accordance with § 107.105 and the public proceeding thereon.
6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous Material Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Hazardous materials authorized in DOT Specification 407/412 series cargo tank motor vehicles	Various	Various	I, II, III

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Prescribed packagings are non-DOT specification cargo tanks conforming to all requirements of the DOT 407/412 Specification except that they are constructed and ASME stamped with a "T" designator to the latest (2013) edition of ASME Section XII. Code cases, if used shall be marked on the manufacturer's data report form. The tanks must conform with all regulations applicable to a DOT specification 407 or 412, except as follows:

§ 178.320(a) Minimum thickness

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(ii) The minimum thickness determined by ASME XII.

§ 178.345-2 Material and material thickness.

- (a) All materials of construction must conform to ASME Section XII, Section II and applicable codes cases. SA-572 is authorized with grades 42, 50 and 55 limited to thickness less than or equal to 3/4", and grades 75 and 80 limited to thickness less than or equal to 1/2".

(b) The minimum thickness for shell, heads, or baffles and bulkheads used as tank reinforcement must conform to the requirements of ASME XII in lieu of § 178.320(a).

§ 178.345-3 Structural integrity

(a) General requirements and acceptance criteria

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(1) Maximum calculated design stress in the cargo tank wall must not exceed the ASME XII maximum allowable stress.

§ 178.345-4 Joints

(a) All joints shall be in accordance with ASME XII

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§ 178.345-5 Manhole Assemblies

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§ 178.345-6 Supports and Anchoring

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§ 178.345-7 Circumferential reinforcement

(a) \*\*\*

(1) Cargo tanks designed to be loaded by vacuum may have circumferential reinforcement spacing greater than 60 inches provided the un-reinforced shell section meets ASME XII criteria.

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(d) \*\*\*

(3) Ring stiffeners shall meet ASME XII criteria for vacuum service.

§ 178.345-8 Accident damage protection

(a) \*\*\*

(b) \*\*\*

(1) ASME Section XII criteria must be met except that bottom damage protection shall be designed with a load criteria of 0.85 the Gross Vehicle Weight (GVW).

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§ 178.345-9 Pumps piping, hoses and connections

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§ 178.345-10 Pressure relief

(a) Pressure relief devices must be ASME Section XII or VIII certified.

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(h) Pressure relief devices must be marked in accordance with ASME Section XII or VIII.

§ 178.345-11 Tank Outlets

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§ 178.345-12 Gauging

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§ 178.345-13 Pressure and Leakage Tests

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§ 178.345-14 Marking

(a) ASME NAME PLATE: ASME Section XII requirements must be met in lieu of Section VIII. Characters markings must be a minimum 4 mm (5/32"), markings directly on the tank must be a minimum 8 mm (5/16")

DOT SPECIFICATION PLATE: Specification plate requirements must be appropriately modified to reflect

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compliance with terms of this special permit. For example:

**DOT SPECIFICATION PLATE  
CARGO TANK MOTOR VEHICLE MANUFACTURED BY  
XXX Co.  
XXX, XX USA  
DOT Reg. # CT-XXXX**

**SPECIFICATION:** DOT 407/412 SP-15955  
**CARGO TANK MOTOR VEHICLE CERTIFICATION DATE:** \_\_\_\_\_  
**CARGO TANK MFR.:** \_\_\_\_\_  
**CARGO TANK DATE OF MFG:** \_\_\_\_\_  
**CARGO TANK MFR. SERIAL #:** \_\_\_\_\_  
**CARGO TANK MOTOR VEHICLE MFR. VIN:** \_\_\_\_\_  
**MAXIMUM PAYLOAD:** \_\_\_\_\_  
**MAXIMUM LOADING RATE:** \_\_\_\_\_  
**MAXIMUM UNLOADING RATE:** \_\_\_\_\_

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§ 178.345-15 Certification

(a) \*\*\*

(b) \*\*\*

(1) \*\*\*

(2) The ASME Section XII manufacturer's data report must be provided as part of the cargo tank motor vehicle certification documents.

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§ 178.347-1 General requirements

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(c) \*\*\*

(1) Inspection and record keeping requirements of ASME Section XII apply to all cargo tanks. All inspection and certification must be made by an inspector registered with the DOT. This includes registration of the ASME, Authorized Inspection Agency.

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§ 178.347-2 Material and thickness of material  
see §§ 178.320(a) and 178.345-2

§ 178.347-3 Manhole assemblies

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§ 178.347-4 Pressure relief

(a) See 178.345-10 above

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§ 178.347-5 Pressure and leakage test

(a) \*\*\*

(b) pressure testing shall be in accordance with ASME XII.

(1) Hydrostatic testing must be at least 1.3 MAWP

(2) Pneumatic testing must be at least 1.1 MAWP

§ 178.348-1 General requirements

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(e) All cargo tanks shall be ASME XII certified. Inspection and record keeping requirements of ASME Section XII apply to all cargo tanks. All inspection and certification must be made by an inspector registered with the DOT. This includes registration of the ASME, Authorized Inspection Agency.

§ 178.348-2 Material and thickness of material

see 178.320(a) and 178.345-2

§ 178.348-3 Pumps, piping, hoses and connections

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§ 178.348-4 Pressure relief

(a) See 178.345-10 above

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§ 178.348-5 Pressure and leakage test

(a)\*\*\*

(b)Pressure Test:

(1) Hydrostatic testing must be at least 1.3 MAWP

(2) Pneumatic testing must be at least 1.1 MAWP

b. MARKING - Each cargo tank motor vehicle must be plainly marked on both sides near the middle in letters at least two inches in height on a contrasting background SP-15955." Each vehicle identification number must be marked on both sides of the vehicle as specified in §§ 172.302(b) and (c).

c. OPERATIONAL CONTROLS - Repairs, Alterations and modifications must be performed by a facility holding a current NBIC certificate of authorization for the use of the National Board "TR" or "R" Stamp with Section XII endorsement for Category 407 & 412 Cargo Tanks. The maintenance and continued qualification of cargo tanks authorized under the terms of this special permit shall be in accordance with the NBIC including Supplement 6 of Parts 2 and 3.

8. SPECIAL PROVISIONS:

a. In accordance with the provisions of Paragraph (b) of § 173.22a, persons may use the packaging authorized by this special permit for the transportation of the hazardous materials specified in paragraph 6, only in conformance with the terms of this special permit.

b. A person who is not a holder of this special permit, but receives a packaging covered by this special permit, may reoffer it for transportation provided no modification or change is made to the packaging and it is offered for transportation in conformance with this special permit and the HMR.

c. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.

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- d. Each packaging manufactured under the authority of this special permit must be either (1) marked with the name of the manufacturer and location (city and state) of the facility at which it is manufactured or (2) marked with a registration symbol designated by the Office of Hazardous Materials Special Permits and Approvals for a specific manufacturing facility.
- e. A current copy of this special permit must be maintained at each facility where the packaging is manufactured or maintained under this special permit. It must be made available to a DOT representative upon request.
9. MODES OF TRANSPORTATION AUTHORIZED: Motor Vehicle.
10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each motor vehicle used to transport packages covered by this special permit.
11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this special permit and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:
- o All terms and conditions prescribed in this special permit and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
  - o Persons operating under the terms of this special permit must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.
  - o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this special permit must receive training on the requirements and conditions of this special permit in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this special permit, including display of its number, when this special permit has expired or is otherwise no longer in effect.



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Under Title VII of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU)—"The Hazardous Materials Safety and Security Reauthorization Act of 2005" (Pub. L. 109-59), 119 Stat. 1144 (August 10, 2005), amended the Federal hazardous materials transportation law by changing the term "exemption" to "special permit" and authorizes a special permit to be granted up to two years for new special permits and up to four years for renewals.

12. REPORTING REQUIREMENTS: Shipments or operations conducted under this special permit are subject to the Hazardous Materials Incident Reporting requirements specified in 49 CFR §§ 171.15 Immediate notice of certain hazardous materials incidents, and 171.16 Detailed hazardous materials incident reports. In addition, the grantee(s) of this special permit must notify the Associate Administrator for Hazardous Materials Safety, in writing, of any incident involving a package, shipment or operation conducted under terms of this special permit.

Issued in Washington, D.C.:



for Dr. Magdy El-Sibaie  
Associate Administrator for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Material Safety Administration, U.S. Department of Transportation, East Building PHH-30, 1200 New Jersey Avenue, Southeast, Washington, D.C. 20590.

Copies of this special permit may be obtained by accessing the Hazardous Materials Safety Homepage at [http://hazmat.dot.gov/sp\\_app/special\\_permits/spec\\_perm\\_index.htm](http://hazmat.dot.gov/sp_app/special_permits/spec_perm_index.htm) Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

PTO: Staniszewski