Michigan
PROPANE GAS ASSOCIATION

PURPOSE OF THIS BOOKLET

This booklet is intended to be an explanation of the Special Permit established by the Department of Transportation (DOT) for transporting ASME tanks 125-500 (WC) water gallon capacity and containing more than 5% propane.

When You Complete This Booklet, You Will . . .

- Understand the prerequisites to qualify.
- Understand what training is required prior to becoming qualified to perform the functions of SP-13341.
- Understand what type of ASME tanks may be transported containing more than 5 percent liquid.
- Understand what procedures to use to inspect tanks before transporting them.
- Understand what equipment is to be used.
- Understand the record keeping requirements.
- Understand the provisions of DOT SP-13341.

How to Use This Booklet

This instructional booklet is intended as a tool for a function specific training program.

- Participants must understand all the requirements as outlined below.
- Documentation of participation of this training program must be kept on file.

Requirements of Companies and Individuals Who Intend to Perform Functions of SP-13341

- ❖ An employer must be a member of the MPGA and NPGA.
- ❖ A person who performs the functions outlined in this booklet shall have successfully completed CETP Training as outlined below prior to operating under the special permit. Persons using SP-13341 must also satisfy the "HazMat Employee" training as defined in 49 CFR (Code of Federal Regulations) §171.8, §172.700 through §172.704.

1-5. Qualification of personnel.

1-5.1 Not later than 2 years after the effective date of these rules or not later than 1 year after the date of employment, a person who transfers liquefied petroleum gas, or whose primary duties fall within the scope of the code, shall complete a training program and then receive certification from the national propane gas association's employee training certification program that includes handling, operating, and certified testing of liquefied petroleum gas, as adopted in section 12-1.13 of the code. The employer shall document that the person has received certified testing training. Only an individual who has received the certified testing training specified in this code is permitted to install or service liquefied petroleum gas systems and equipment.

This booklet meets the requirements as stated above for training designed for special function of this Special Permit (SP-13341).

[i]Source: NFPA Pamphlet 58

DOT Requirements for Transporting ASME Tanks

- One ASME tank, 125-500 (WC) water gallon capacity may be transported, one way, by private motor carrier, from the consumer to the tank owners nearest bulk plant, legally over public roads containing up to the normal maximum filling density specified in §173.315 (b), when the provisions of DOT SP-13341 are followed.
- ASME tanks over 500 gallons may NOT be transported over public roads when containing in excess of 5% product.
- The new DOT Special Permit does not affect ASME tanks up to 124 water gallon capacity. The existing law remains for transporting these ASME tanks over public roads when filled to the normal maximum filling density specified in §173.315 (b).

Necessary Equipment

- The special permit contains these provisions:
  - Only certified slings may be used under the tank. Refer to 49 CFR §173.315 (j), (3) /§177.834 (a)

❖ Two lifting methods may be considered.
■ Choker lift

■ Basket lift

❖ Lifting lugs (ears) may not be used.
❖ Only tanks of 125 to 500 (WC) water gallon capacity may be transported.

❖ Portable saddles (cradles) must be used when transporting a tank containing more than 5% product. The existing tank legs are not designed to handle the weight during transportation.

❖ Tie-down straps must meet minimum capacity requirements. Refer to 49 CFR §393.102 and §393.106. (AA's table Attachment).
  - NOTE: A 500 gallon tank containing 80% product will weigh approximately 3,000 pounds. Therefore tie-down straps, assuming the usage of a minimum of two, each must have 2,400 pounds of breaking strength.

Other Conditions

❖ ASME tanks must have a legible data plate with a "U" stamp.
❖ Tanks containing more than 5% product must be transported from the customer location to your nearest bulk plant where the tank will be removed.

- ❖ Only one tank at a time may be transported.
- ❖ The special permit requires the following:
  - ■ Prior to transportation tanks must be inspected by a trained, qualified employee and the inspection must be documented using the ASME U – Stamp Container External Visual Inspection Report per DOT-SP 13341. Completed inspection reports must be retained in company files for two years. (Inspection form found below)
  - ■ Transported tanks must be completely contained within the body of the vehicle. In other words, must not hang over or out of the vehicle to protect from side or rear impact.
  - ■ Tank set trailers do not currently meet these provisions and may not be used.

Tank Inspection
(Refer to CETP for Details)

- ❖ **Inspection Procedures**
  - ■ A visual inspection of all tanks must be performed before they may be transported.
  - ■ All inspection procedures follow the National Board of Pressure Vessel Inspectors guidelines.
- ❖ **Data Plates**
  - ■ The tank must have a legible data plate showing the ASME "U" stamp, serial number and water gallon capacity (WC).
- ❖ **Leaks**
  - ■ Inspect tank for leaks using DOT criteria. Leaks that are audible, visible, or detectible without the use of leak detector are not permissible.

Tank Inspection (Continued)

- **Dents**
  - Dents are damage caused by a blunt object creating curved depressions in the steel of the tank.
  - Dents on or near welds are considered more serious than dents on the shell or heads of the tank.
- **Cuts and Gouges**
  - Cuts and gouges are caused by damage from sharp objects.
  - Cuts and gouges are more serious damage than dents because they create greater stress in the steel.
- **Corrosion**
  - Use a wire brush or other suitable tool to clean all paint, rust, scale and debris from the corroded area.
  - Probe under any blistered coating to ensure no corrosion is occurring.
- **Valves and Fittings**
  - Ensure the dome cover is in place and protecting valves and fittings from damage.
  - Plug or cap all valve openings.
- **Tank Inspection Form**
  - Complete, sign and date entire form. As a reminder, the completed form must be retained for a minimum of two years.

ASME U – Stamp Container External Visual Inspection Report per DOT SP-13341

Date:_____

Origin of Shipment:

Customer Name_____

Address_____

City/State/Zip_____

Destination of Shipment:

Company Name_____

Bulk Plant Location_____

Address_____

City/State/Zip_____

Tank Manufacturer_____

Container Serial Number_____

Water Gallon Capacity (WC)_____

Estimated Percentage of Product in Container_____

	Complies	Fails
1.) Shell/heads: condition of welds, dents, gouges, corrosion, abrasion	☐	☐
2.) Service valves and additional withdrawal valve for leakage, proper operation, including handles and dome cover	☐	☐
3.) Pressure relief devices: verify body of valve is not damaged, free of leaks and protective cover is in place	☐	☐

Remarks, defects found, location of defect(s) (2):_____

Tank Disposition:
Ready to Transport ☐ Date_____Removed product to 5% prior to transporting if tank does not pass inspection ☐

Lifting Slings and Tie Down Straps Inspection
Slings must be rated to a weight sufficient to accommodate the container and lading and shall comply with ASME B30.0 on slings used for lifting purposes.

Lifting slings and tie down straps must be visually inspected prior to each use. A sling showing tears, fraying or other signs of excessive wear may not be used. Knots are not permitted.

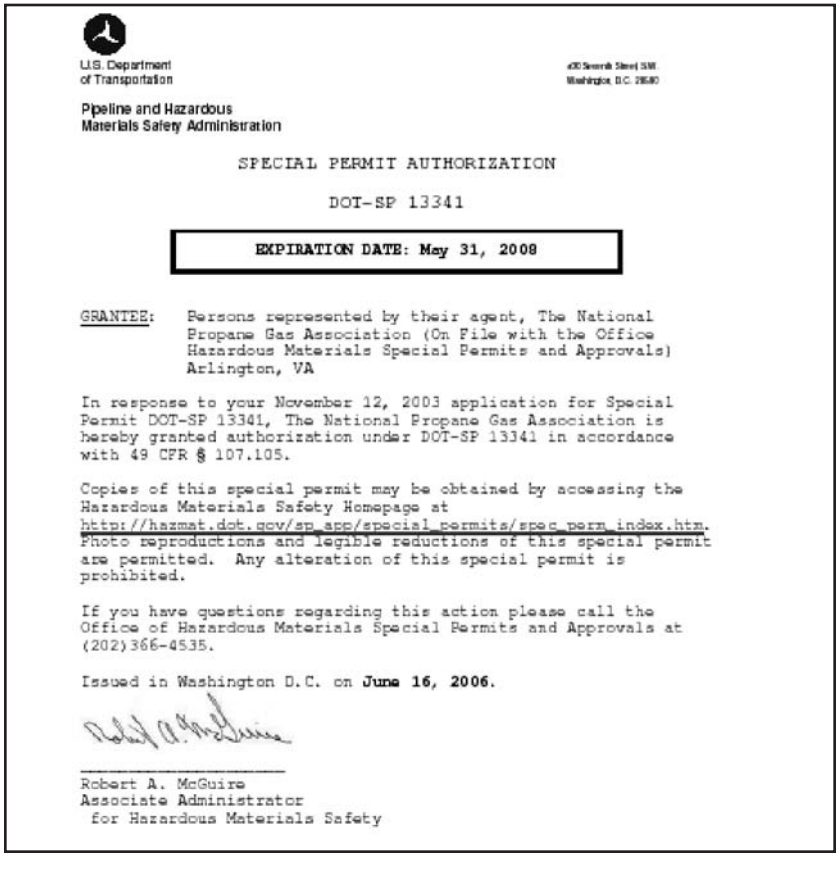
Straps or chains used as tie downs must be rated to exceed the maximum load to be transported and comply with the requirements in 49 CFR §393.100 through §393.106.

	Complies	Fails
1.) Condition of lifting slings	☐	☐
2.) Condition of tie down straps	☐	☐

Person performing inspection:_____

DOT Special Permit Letter

A copy of the special permit letter (5 pages) and the permit provided by the National Propane Gas Association (NPGA) is required in the transporting vehicle at all times during the transportation of tanks under DOT SP-13341.



U.S. Department
of Transportation

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Pipeline and Hazardous
Materials Safety Administration

SPECIAL PERMIT AUTHORIZATION

DOT-SP 13341

EXPIRATION DATE: May 31, 2008

GRANTEE: Persons represented by their agent, The National Propane Gas Association (On File with the Office Hazardous Materials Special Permits and Approvals) Arlington, VA

In response to your November 12, 2003 application for Special Permit DOT-SP 13341, The National Propane Gas Association is hereby granted authorization under DOT-SP 13341 in accordance with 49 CFR § 107.105.

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. Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

If you have questions regarding this action please call the Office of Hazardous Materials Special Permits and Approvals at (202)366-4535.

Issued in Washington D.C. on **June 16, 2006.**

Robert A. McGuire
Associate Administrator
for Hazardous Materials Safety

Accident Reporting

Refer to 49 CFR §171.15 and §171.16 for proper reporting. In addition, notify OHMSPA in writing.

Questions and Answers:

Q. Can a tank without a data plate be transported under the exemption?

A. No. The special permit states the tank must have an ASME "U" stamp. The only place the stamp is located is on the data plate.

Q. Can we make our own saddles?

A. Yes. But saddles and bracing must meet DOT standards. Home made saddles may, in fact, be strong and safe, but their quality and consistency cannot be assured.

Q. Are there company requirements necessary to comply?

A. Yes. Your company must be a member in good standing with the Michigan Propane Gas Association and the NPGA. The special permit is not valid for non-members of the association.

Q. Who will monitor compliance of the special permit?

A. In the state of Michigan, it is the Michigan State Police, Motor Carrier Division.

Q. What if we have a satellite location closest to the customer location where we are picking up a tank?

A. It is acceptable to take the tank to the closest company location where the tank will be pumped off. In some cases this location may be further than the closest unmanned satellite.

Q. Can I set the tank I just picked up at another customer location if that location is closer than our nearest plant location?

A. NO. The rule is clear.

Questions and Answers (Continued)

Q. Can I carry 1-tank with more than 5% and 1-tank with 5% or less?

A. NO. The rule is clear. If you carry a tank with more than 5% product, you may only carry that tank.

Q. How would you recommend carrying the Special Permit Letter?

A. One suggestion would be to photo-copy it to the back of the Inspection Form. Therefore, you are assured to always have a copy and eliminate the need for two documents with each job.

Q. What parts of 49 CFR does this special permit affect?

A. Parts §106, §107 and §171-§180, and Part §393.

Q. Is this a permanent new law or rule?

A. No. This is a special permit in effect until May 31, 2008.

Q. Why only until 2008?

A. The U.S. Department of Transportation (USDOT) will monitor our actions and consider a renewal based on our industry's ability to comply.

Q. What does a new or newer 500 gallon tank weigh empty?

A. Tanks manufactured today weigh approximately 950 pounds. Older tanks were built with heavier gauge steel and consequently will add additional weight.

Q. Where can we find copies of this permit?

A. Copies of the permit, letter and text can be found on the NPGA Website, www.npga.org

Questions and Answers (Continued):

Q. How much does propane weigh?

A. Propane weighs 4.24 pounds per gallon.

Q. Why do I need to know the weight of propane?

A. It is always important to calculate your total lifting load prior to proceeding and to determine the proper amount and type of load securement straps.

Q. Where can we buy saddles, slings and tie-down straps that meet the requirements?

A. Many industry suppliers may offer these items or can refer you to a supplier.