



Approval # 20040004

Environmental & Regulatory Services Division
Bureau of Petroleum Products and Tanks
201 West Washington Avenue
P.O. Box 7837
Madison, WI 53707-7837

Wisconsin COMM 10 Material Approval

Equipment: Skid Mounted Tank System with Integral
Collision Protection

Manufacturer: Custom Welding and Fabrication
N6431 Cty Road H
Luxemburg, WI 54217

Expiration of Approval: December 31, 2009

SCOPE OF EVALUATION

The skid mounted tank system with integral collision protection manufactured by Custom Welding and Fabrication of Luxemburg, Wisconsin, was evaluated against the dispenser setback and vehicle collision protection requirements of **Comm 10.415 (4) and (8)** of the Wisconsin Flammable and Combustible Liquids Code.

This evaluation summary is condensed to provide the specific installation, application and operation parameters necessary to maintain the subject systems in compliance with the Wisconsin Administrative Code – Comm 10.

DESCRIPTION AND USE

The Custom Welding and Fabrication collision protection skids are made of steel, with steel H-beams used for the upper part of the sides to absorb vehicular impacts. Anchor braces are attached to the outside of the collision protection for the purpose of bolting the skid in place to prevent displacement if impacted. The tank and dispenser are also bolted to the containment system super-structure. Standard models are for a 1,000-gallon and a 550-gallon tank.

TESTS AND RESULTS

Dimensioned drawings are on file with the department showing configuration and major design components. Calculations and testing data were submitted showing adequate collision impact resistance to meet **s. Comm 10.415 (8)(a)**.

LIMITATIONS / CONDITIONS OF APPROVAL

- A reduced dispenser to tank setback is allowed for snowmobile, all-terrain vehicle (ATV), marine, and fleet fueling using any listed tank.
- A reduced dispenser to tank setback is allowed for retail fueling using a protected tank.
- The tank, dispenser, and collision protection skid must be secured in place in order to prevent displacement if impacted.
- The tank system shall be designed, installed, and maintained in accordance with the applicable sections of Comm 10, NFPA 30 and NFPA 30A.
- An aboveground storage tank installer certified by the department in accordance with **Comm 5.84** shall supervise the installation.
- Additional vehicle collision protection, such as posts or rails in accordance with **s. Comm 10.415 (8)** are not required provided the tank is fastened with anchor bolts or cables; and shear valves, flexible connectors, or other protective devices are installed on product and/or electrical lines to assure adequate system flexibility should the system be displaced by collision.

Unusual or heavy traffic patterns may require additional visual warning or collision protection. Additional collision protection may also be required if large equipment is being fueled.

This approval will be valid through December 31, 2009, unless manufacturing modifications are made to the product or a re-examination is deemed necessary by the department. The Wisconsin Material Approval Number must be provided when plans that include this product are submitted for review.

DISCLAIMER

The Department is in no way endorsing or advertising this product. This approval addresses only the specified applications for the product and does not waive any code requirement unless specified in this document.

Reviewed by: _____

Greg Bareta, P. E.
Engineering Consultant
Bureau of Petroleum Products and Tanks

Approved by: _____ Date: **April 5, 2004** _____