RECOMMENDED SPECIFICATIONS FOR AREO-POWER TANK MODEL 5072

A. General

1. The above-ground storage tank shall be as manufactured by Areo-Power Unitized Fueler, Inc., and as shown on tank construction drawing number APB550.

2. The unit shall consist of a steel 500 gal above-ground horizontal cylindrical storage tank mounted on saddles within a containment dike providing secondary containment of at least 150% of primary tank capacity.

3. The entire tank / dike assembly shall be listed by Underwriters Laboratories, Inc. (UL) and labeled with the UL *"Closed Top Diked Aboveground Tank for Flammable Liquids"* label.

B. Materials

1. The tank, dike and all steel appurtenances shall be fabricated from commercial or structural grade carbon steel. Only new materials shall be used.

2. All carbon steel shall comply with the latest edition of the *Specification for Structural Steel,* ASTM A36; or the *Specification for Steel, Carbon (0.15 Maximum, Percent), Hot Rolled Sheet and Strip, Commercial Quality*, ASTM A569.

C. Size and Dimensions

1. The primary tank shall be 4’ diameter by 5’5” long. The shell steel thickness shall be 12ga and tank heads shall be 12ga.

2. The containment dike shall be 6'0" wide by 7'5" long by 2'4" high. The containment dike steel thickness shall be 12ga.

D. Primary Tank Fittings

1. All fittings will be sized and located as indicated on the tank construction drawing.

2. All fittings shall be protected with plastic thread protectors to prevent damage to threads and minimize foreign matter from entering the tank during shipping.

E. Assembly and Appurtenances

1. The tanks will be furnished with 1 1/2" steel supports.

2. The containment dike shall be furnished with support dunnage to allow for visual inspection of containment dike bottom. The size and location of supports shall be as indicated on the tank construction drawing.

3. The unit shall be provided with a 12 ga. (min) steel rainshield designed to minimize water and debris from entering the diked area. The rainshield design will allow for easy visual interior dike inspection.

4. The primary tank shall be provided with a fill containment sump designed to contain

spills of up to 3 gal.(approximately) in a tank top reservoir while a 1" sch 40 overflow pipe diverts spills in excess of 3 gal in to the containment dike.

5. The tank shall be furnished with a 2" emergency vent designed to relieve internal tank pressure in excess of 0.5 psig.

6. The tank assembly shall be provide with an emergency vent protection hood designed to prevent snow, ice and debris from rendering the emergency vent ineffective while allowing the vent to operate as intended.

7. The unit will be provided with a step attached to the front of the tank dike to allow easy tank top filling. The stair frame and handrails shall be fabricated from carbon steel. Stair treads and fill platforms shall be constructed of slip resistant grating.

8. The unit shall be provided with lifting lugs such that the primary tank and dike may be lifted.

F. Exterior Coating for Steel Parts

1. All exterior steel surfaces (including the interior of the containment dike) shall be factory coated with red oxide primer.

-or-

2. All exterior steel surfaces (including the interior of the containment dike) shall be factory grit blasted to the Steel Structures Paint Councils Surface Preparation Specification No. 7 (SSPC-SP7) and coated with the manufactures standard high solids gray primer.

-or-

3. All exterior steel surfaces (including the interior of the containment dike) shall be factory grit blasted to the Steel Structures Paint Councils Surface Preparation Specification No. 7 (SSPC-SP7) and coated with the manufactures standard white finish (epoxy, polyurethane, enamel at manufacturers option).

G. Factory Testing Requirements

1. The tank shall be factory tested in accordance with the requirements of UL 142.