

SPECIFICATION

SafeSite™ Day Tank System

1.0 GENERAL DESCRIPTION AND STANDARDS

- 1.1 DAY TANKS WITH RETURN PUMP SYSTEMS:** Day Tanks shall be a UL 142 listed and labeled, secondarily contained, double-walled rectangular steel tank. As an option, day tank shall be a UL 2085 listed and labeled fire-rated tank, as to allow the day tank primary emergency vent to relieve indoors (if applicable or as required by Code).
- 1.2** The Day Tanks with Return Pump Sets shall be controlled by SafeSite Fuel System Controls as configured and supplied by Core Engineered Solutions, Inc.

2.0 DESIGN AND CONSTRUCTION

- 2.1** The primary and secondary tanks shall be fabricated from 10 gauge steel minimum sidewall thickness and ¼ inch top thickness, with the primary tank air pressure tested at 3 PSI using a leak detection solution and the secondary tank shall be air pressure tested at 1 ½ PSI using a leak detection solution, all per UL 142 requirements.
- 2.2** The annular space between the inner and outer walls shall provide containment for 100% capacity of the primary tank and shall be able to accommodate the leak sensor.
- 2.3** Outer tank shall be coated with a primer and a minimum of two coats of fuel resistant epoxy paint, color to be determined by the owner.
- 2.4** Tank shall have top mounted fittings and equipment as follows: Primary Vent; Primary Tank Emergency Vent; Containment Area Emergency Vent; Containment Area Leak Detection; Generator Suction Line; Generator Return Line; Fuel Oil Supply with Mechanical Overfill Prevention Valve; Fuel Oil Return; Mechanical Level Gauge; Level Sensor; (2) Spares.
- 2.5** All tanks shall be labeled by product, capacity, and manufacturer.
- 2.6** Updraft and emergency venting shall be provided by tank manufacturer per UL 142 requirements.
- 2.7** Day tanks shall be provided with permanently mounted mechanical visible flow indicator to confirm flow of fuel.
- 2.8** If multiple day tanks are being supplied fuel by one main storage tank, inlet control valves shall be provided for each day tank with the appropriate ball/isolation valves as required for manual bypass and servicing.
- 2.9** Positive displacement fuel oil return pumps shall be provided and pre-mounted on the day tank by the system supplier. Pumps shall be sized in accordance with drawings.

For drawings or more information contact Core Engineered Solutions at www.core-es.com
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