

Application Report:

Piedmont Energy Systems and SST Trucking team up on bulk storage systems.

During the summer of 2001, SST Trucking Co. was looking for added bulk storage for their R-134a refrigerant for charging into the truck A/C systems. Upon contacting the refrigerant vendor (Atofina Chemical Co.), they were referred to Piedmont Energy Systems, Inc.. Atofina had long used PES as their exclusive OEM tank vendor for bulk storage applications, and knew that a cost effective solution was only a phone call away. Upon contacting PES, it was determined that a refurbished tank system was the most cost effective solution for SST's needs. Piedmont Energy Systems was quickly able to quote, remanufacture, and ship the storage system within a matter of a few weeks.

Due to upcoming expansion, SST had several other applications for bulk storage, such as 15 wt. motor oil, transmission fluid and power steering fluid. Their original concept called for three separate storage tanks, each approximately 5,000 to 6,000 gallons in capacity. Unfortunately, these particular fluids were environmentally regulated, thus requiring a large concrete dike area in which to set the tanks.

PES recommended an innovative "triple tank" system that consists of three separate tanks "wrapped" in a steel shell. This style of construction eliminated the containment dike because it provided integral "double containment" and presented a much smaller system footprint. Piedmont Energy Systems built two skid-mounted systems, the first being the "triple tank", and the second was the pumping system skid. The pump skid contained six pumps (three truck unloading pumps and three product transfer pumps) and all associated valves and controls. The system also included innovative solar-powered level gauges with relay-style control over the pumps. For ease of installation, PES also pre-fabricated all interconnecting piping, so that installation was as simple as making a few field welds and bolting flanges together.

Piedmont Energy Systems was able to quickly engineer, fabricate, and deliver a highly cost effective and fully customized bulk storage system that perfectly suited the needs and budget of SST Truck Co. If you would like more information on this system, or have a potential application, please feel free to call or email us at the numbers listed below.



Refurbished 4,200 gallon R-134a storage system with special pump package.



Customized "triple tank" system with control panels and level gauges for each fluid.



Tank with pump skid and pre-fabricated interconnect piping (prior to final painting).



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