

# Application Report:

**Piedmont Energy Systems and GM team up on bulk storage systems for refrigerants (R134a), Methanol and brake fluid.**

January, 2003

After successful completion of several other customized bulk storage units, General Motors called upon Piedmont Energy Systems once again to help out at the new Colorado <sup>®</sup>™ medium duty truck plant in Shreveport, LA..

The plant needed storage and pumping systems for brake fluid, methanol and refrigerant R-134a. When P.E.S. engineers visited the jobsite it was clear that this job was going to be more than your normal “run of the mill” tanks. Specifications called for FM explosion-proof certification for every piece of electrical equipment and some pretty tough design criteria. The project was already 3 months behind schedule and there was no time to lose. In order to get construction started ASAP, the architectural design firm had already designed most of the support and walkway structures in and around the tank farm. With fabrication already under-way, it was Piedmont Energy’s job to design the tanks around any obstacles that might interfere, while also making the tanks in modularized packages that would cut installation time in half. All tanks were to have instrumentation and monitoring systems for level, temperature and pressure, not to mention some tricky pumping parameters that required the use of special European made pumps.

The total job cycle from contract award to jobsite commissioning was only five (5) months, all in record fashion. General Motors site manager, Mac Garcia said “Without the attention to engineering and fabrication detail, and the constant hard work and urgency of Piedmont, we would not have completed this project on time. We were very fortunate to have them on our team during the Shreveport assembly plant project.”

If you have any questions about potential applications or our capabilities, please feel free to contact us at the address below.



Installed 10,000 Gallon S/S brake fluid storage tank with customized pumping and instrumentation package.



Installed 8,000 Gallon C/S methanol storage tank. All electronics and power supplies are FM Explosion-Proof certified.



6,565 gallon bulk refrigerant (R-134a) storage system, with fully integrated controls and monitoring system (still at the factory).



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