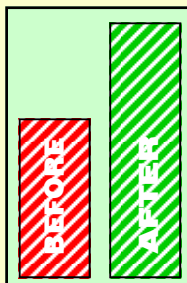


CASE STUDY

Increasing Rack Loading Capacity With TESCO Terminal Technologies (t³)

Terminal Stops Loading Because Trucks Are Venting!!

Recently a major terminal reported cutting back its loading rack rates to keep the vapor system from over pressuring and venting. This meant lost business, and worse, lost revenue ... very serious problems for any terminal!!



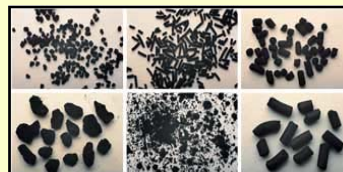
The problem here was an vapor system back pressure. Truck and vapor line relief valves were popping off day and night! The VRU appeared to be over-loaded.

In this case the terminal manager was at his wits end. He had tried everything the VRU manufacturer recommended, but nothing seemed to work.

Looking for a more objective perspective he turned to TESCO for help. "TESCO's experience prompted us to give the existing vapor recovery system a complete tune-up," says Tim Hammond, TESCO's president. Leaking valves, incorrect cycle times, bad seal fluid glycol concentration, PLC software glitches, and off-spec carbon quality were all discovered and corrected.

The improvements were dramatic, allowing the terminal to return to normal ... until higher RVP gasoline arrived. Then, the problems returned, and throughput had to be reduced again to keep the

vent valves from popping off. "This time we called on our process experts at SYMEX Americas for their advice," reports Hammond. "Together we checked the vapor piping, valves, fittings, and overall component sizing. We discovered that 15" of the 18+" of water column pressure drop was occurring in the carbon beds." Although the carbon was just two years old, TESCO technicians gathered carbon samples and had them analyzed. The results showed that the carbon was in like-new condition. Nevertheless, the pressure drop in the carbon beds was still too high!



TESCO proposed the replacement of the existing carbon with their FloMax™ carbon. This carbon was developed for TESCO to solve back pressure and rack loading capacity problems just like this. Hammond explains, "We needed a carbon we could get more flow through with less pressure drop, and without sacrificing hydrocarbon adsorption in the process. Flo-Max™ does this and more!" While there are lots of different carbons to choose from TESCO has learned that Flo-Max™ is the right product to solve this problem.

"If this ever happens to you, we can help," says Hammond. "We use Flo-Max™ and the many other solutions of TESCO's Terminal Technologies (t³) to solve problems like this for our customers every day."

(Continued from page 1)

FloMax™ Specialty Carbon

FloMax™ carbon is a unique coal based carbon with higher density and lower pressure drop characteristics than the more commonly used granular carbon. As Hammond puts it, "It's the right stuff! It's harder, so it doesn't dust like granular carbon. Also, every cubic foot is 30% more dense, so we get more pounds of carbon in less space. More pounds of carbon means better adsorption, and that means greater recovery!" He goes on to explain, "FloMax™ has a 20% porosity advantage. Simply stated, we flow more vapor through more carbon at lower pressures, solving the truck over-pressure problem." If your trucks vapor line relief valves are popping off during loading, you might consider FloMax™ too.

Loading Rates Restored!

TESCO's FloMax™ carbon saved the day in this

terminal. Once installed, the back pressures at the rack dropped by 15" water column, better than predicted. This meant loading rates could be increased once again to satisfy the terminal's customers. The problem was solved! The terminal manager could once again focus on the expansion of the terminal and his long term solutions for increasing loading rates to meet the future demands of his terminal.

FloMax™ REALLY WORKS

In application after application, FloMax™ has proven itself. Just talk with some of our satisfied customers if you have any doubts to get their objective feedback. And before you consider any expensive add-ons or retrofits, please call TESCO to see what they and their many **t³** technologies can do for you. TESCO's people live TESCO's motto, "Total Commitment to Guaranteed Service". This is your assurance of complete satisfaction. You can call TESCO direct at 1-317-872-4321, or toll free at 1-800-276-7152 .

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TESCO TERMINAL NEWS

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