



**Tarsco**<sup>®</sup>  
a TF Warren Company

**Full service provider for  
storage tanks and terminals**

Adhering to the scope of work, **Tarsco** engineered, procured, fabricated, and constructed six (6) tanks with single wall suspended decks. The scope also included tank insulation, painting, and quality testing.

4 each - 200,000 bbls refrigerated propane  
150' dia. x 68' high

2 each - 100,000 bbls refrigerated butane  
117' dia. x 59' high

#### Air Raised Dome Roofs

**Tarsco** developed a thorough procedure to build dome roofs near the bottom of the tank and then air raise them into final position at the top of the tank. These 200+ ton roofs were built in pieces and utilized sub-assemblies on temporary structures in the low position as a suspended insulation deck was constructed. While in that position, a cable leveling system was installed to assist roof stabilization as it traveled from the bottom of the tank to its final top position. A seal was installed along the periphery of the lower edge of the roof which sealed the roof to the shell. Extensive shell plumb and roundness checks were made to insure a smooth ascent.

Once the roof was in position to begin the ascent to the top of the tank and all of the checklists verified, **Tarsco** personnel installed temporary fans. The roof was raised with a small air pressure of 0.13 psig measured with a monometer. When the roof reached the top position, crews temporarily attached the roof to the top of the tank and then welded the final connection. Each air raise, including welding the roof in place, took 120 minutes or less.

Personnel safety was always paramount during this procedure the same as it was in all aspects of the project. By constructing the roofs at a low elevation, the contractor limited workers' exposure to dangerous heights, and no injuries were incurred during this project which was completed in 2014 on time and within budget.



## LPG TERMINAL TANKS

### Corpus Christi, Texas

A terminal in Corpus Christi, TX that stores propane and butane products needed to develop 1,000,000 barrels of LPG storage capacity. The terminal owner chose **Tarsco**, a single source solution terminal contractor, to construct six (6) API-620 LPG storage tanks with dome roofs.



TF Warren Group U.S.  
25000 Pitkin Road  
Spring, TX 77386  
832-299-3200

TF Warren Group Canada  
57 Old Onondaga Road West  
Brantford, Ontario N3T 5M1  
519-756-8222



WARREN GROUP

**YOUR SINGLE SOURCE  
SOLUTION**  
[www.tfwarren.com](http://www.tfwarren.com)