



Tarsco[®]
a TF Warren Company

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

The largest distributor of LPG in the Republic of Panama needed to significantly increase its LPG/propane storage capacity in order to meet increased demand and reduce the frequency of inbound vessels. Given Tarsco's years of experience with LPG/propane storage construction and working in tropical locations, the site owner awarded a lump sum contract for one ASME sphere.

Tarsco provided the engineering, procurement, fabrication, construction, and testing to ASME Section VIII-Division 2 code. The scope of work included:

- (1) ASME Sphere 68' diameter x 80' appx. height
- Product storage: LPG / propane
- Capacity: 29,322 barrels (approx. 1.2M gals.)
- Total tonnage: Appx. 650 tons of steel
- Steel thickness: Up to 1.8" thick

The scope of work also included:

- Material procurement
- Blasting and pre-construction primer
- Fabrication of the sphere, tower, platforms, stairway, and deluge piping system (spray header rings).
- Post-weld heat treatment (PWHT)
- Fireproofing and external coatings
- Pressure relief system
- Field coatings
- Design of the deep-pile foundations for the sphere and flare system



STORAGE SPHERE FOR LPG / PROPANE REPUBLIC OF PANAMA

The construction site has a heavy rainy season for around eight months of the year, with some months averaging over 24" of rainfall. Because this tank construction company had experience working in rainy tropical areas, it was able to employ various methods to mitigate the climate challenge and still stay on schedule. The project started in June 2021 and was completed in October 2022.

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