

## Case Study 24: Gulfstar FPS™

Alliance Eng. (now Wood, [www.woodplc.com](http://www.woodplc.com)) Houston, Texas were awarded the detailed engineering and design of the topside facilities and deck for Williams Partners' Gulfstar FPS™ spar production platform.

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### Tungum used on new platform concept for the Gulf of Mexico

Tungum tube is well known for its long life (30 years +) in offshore environments and has a very successful history of use in non-process application in the North Sea.

The knowledge and confidence in Tungum has over the last 10 years grown to include assets in the Gulf of Mexico. Where instrument tube failures of other materials have occurred due to pitting and crevice corrosion, operators have begun to refit with Tungum tube. This confidence in the material has now extended to a new build on the Williams Partners with Hess and Chevron Gulfstar in the Tubular Bells Field. Engineering design of this platform was carried out by Alliance Eng. Houston, Texas who are now Wood Engineering.

This is the first of 5 planned for production over the next 10 years.

### Gulfstar At-A-Glance

- Classic spar hull with traditional three-level topsides
- Designed for 3,000 – 8,500 feet water depths
- 60,000 barrels of oil per day
- Designed for the new maximum storms
- First spar-based FPS with major components built in the U.S.
- Topside Features
- Maximum operating payload – 8,600 short tons
- Living quarters – 50 persons
- Lift – single piece, 6,600 short tons (excluding crane and vent boom)
- Design life – 25 years



### The Tungum Solution

Systems specified with Tungum tube include: Instrument Air, Utility Air, Starting Air, Potable Water, Hydraulic Fluid, Nitrogen, Vents & Sounds, Bilge, Black and Grey water. Tungum tube supplied from 3/8" to 1" diameters. Construction was complete in 2014.

For more information on Wood – visit their website: [www.woodplc.com](http://www.woodplc.com)