

**Contract:** Bunga Raya A Loadout, Transportation and Floatover  
**Client:** COSCO Shipping and Talisman Energy  
**Location:** Gulf of Thailand



## Challenge

To facilitate production at its Southern Field development Talisman Energy needed to install a 9,000 tonnes topside offshore platform in the Gulf of Thailand without the need for separate transportation and crane vessels. GL Noble Denton was able to engineer and execute a floatover solution ensuring a single vessel was used to loadout, transport and install the topside. GL Noble Denton removed the complexity involved with multiple contractor interfaces, thus reducing the client's risk and costs.

## Expertise provided

GL Noble Denton engineered a novel floatover method of installation with the aid of dynamic positioning (DP), a technique it has pioneered and used for the first time in an offshore mating operation. GL Noble Denton also planned the whole operation.

Hyundai Heavy Industries awarded GL Noble Denton the contract for floatover engineering, loadout, grillage, seafastening, detailed transportation engineering and supervision. Meanwhile, COSCO Shipping separately awarded the marine superintendency to GL Noble Denton, on behalf of the vessel owners.

GL Noble Denton performed the engineering for the floatover operation, loadout and transportation in addition to the marine and loadout superintendency for the operation.

The topside platform was loaded on to the Class Two dynamic positioned heavy lift vessel, Tai an Kou by a transverse skidding operation in Vietnam, before sailing to the Gulf of Thailand, and finally performing the floatover.

## Outcome and benefits

DP-assisted installation was quick, simple and safe.

The transverse-loadout operation took just four hours to complete.

The complete floatover installation, including docking, mating and exit, was completed with the aid of the vessel's DP capabilities in under six hours. The detailed planning undertaken by GL Noble Denton combined with highly skilled personnel and extensive client liaison ensured the work was successfully completed within the short weather window available.

Upon completion, GL Noble Denton was praised for a flawless loadout and installation.

**GL Noble Denton**

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