

/ Expro Excellence Burner Boom Systems

Expro develops first flare boom with express, integrated hoisting winch, reducing HSE risk and improving rig operational efficiency



Objectives

- Client wanted to reduce HSE risk during flare boom deployment operations
- To help client increase rig operational efficiency by not having to tie crane up for lengthy periods of time to sling booms

Expro Excellence

- Expro worked with the client to develop a concept for dedicated winching units to safely deploy booms from vertical storage position to horizontal operational position
- Two 90 foot vertical racking booms and kingposts (port and starboard) were supplied, along with 3-Head Sea Emerald Burners
- With a boom of 90 feet, and subsequent weights/forces, a base plate was designed to sweep through 90 degrees and support the weight of the boom
- Front end engineering was performed to verify the strength of the design under all loads and environmental conditions according to American Bureau of Shipping (ABS) Classification of Drilling Systems (CDS) rules, performed using STAAD.Pro software – design and manufacture was certified by ABS in accordance with the CDS standard

- The boom was supplied in a 30 foot lengths to facilitate easy transportation and was assembled in Singapore at the Keppel Fels shipyard
- Testing of the boom and winching system was undertaken using water bags
- The booms were installed onto the rig within one year from initial order

Value to client

- Working direct with Expro was more cost effective and collaborate working delivered a customised solution to their requirements
- Crane operations are avoided – express winching means it take 2-3 minutes to mobilise the booms up and down into position

Contact

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