

# Project Datasheet

<b>Project</b>	14" Flexible Flowlines Load out, Newcastle & Port of Blyth, UK
<b>Scope</b>	Load out and transpooling 6x 14" Flexible Flowlines into temporary storage tanks at Newcastle. Load Out and Transpooling 6x 14" Flexible Flowlines onto the HLV at the Port of Blyth

## 1. Project Overview

Baker Hughes required storage for 6 flexible flowlines for up to a year at the Port of Blyth. A loading tower was required at a barge to load static tanks - 1 flowline per static tank.

As multiple campaigns were foreseen, a modular loading tower concept has been inhouse engineered and build - to enable road transport being more economic than by ship for multiple campaigns.




At project location, the modular Loading Tower (LT03) has transpooled 6 flexible flowlines with an outer diameter of 460mm, in 2 campaigns of 3 flowlines each. The third campaign was required to transpool the flowlines into basket carousels o/b an HLV for transport to project location.



Figure 1 • Overview Load-Out Newcastle, Baker Hughes Factory - Shepherd Offshore

### Contact

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## 2. Scope of Work

Baker Hughes (BH) has awarded Blue Offshore Marine Services (BOMS) for the supply of a modular loading tower (LT03) with a 15t tensioner. Blue Offshore had to design, build in accordance with Lloyds Register and operate the newly build tower for the transpooling of 6x 14” flexible flowlines. The transpooling has been done into two batches of each 3x 14” flowlines per campaign, at the factory of Baker Hughes in Newcastle, UK.

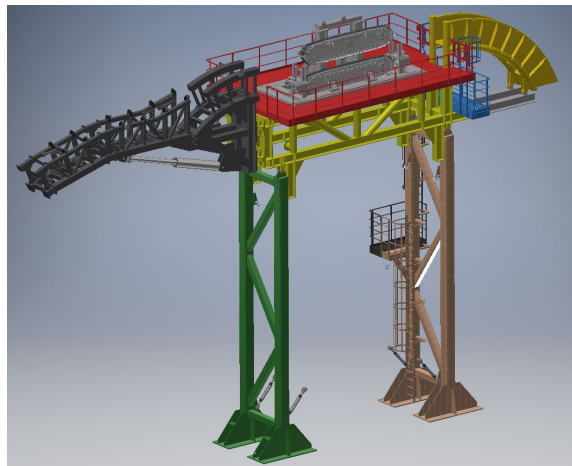


Figure 2 • Design modular LT03 with 15t Tensioner

All flexible flowlines have end fittings which can easily pass through the tensioner as the upper track can pivot.




After successful load-outs in campaigns 1 and 2, Baker Hughes’ 3<sup>rd</sup> campaign was to load-out all 6 flowlines from the storage tanks to two basket carousels on a heavy lift vessel for transport. Blue Offshore trucked the in-house developed modular loading tower with a 15-ton line pull tensioner capacity to the UK (5 trucks) where it was fast-track assembled and mobilised. Blue Offshore operated Loading Tower 03 and provided technicians and supervisors for this scope.



Figure 3 • Loading Tower 03 - two out of five trucks

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Blue Offshore's scope of work included project management support, engineering, key equipment including HPUs, and the flexible flowline crew to operate the loading tower and tensioner for flowline loading.



Figure 4 • Mobilisation at Port of Blyth

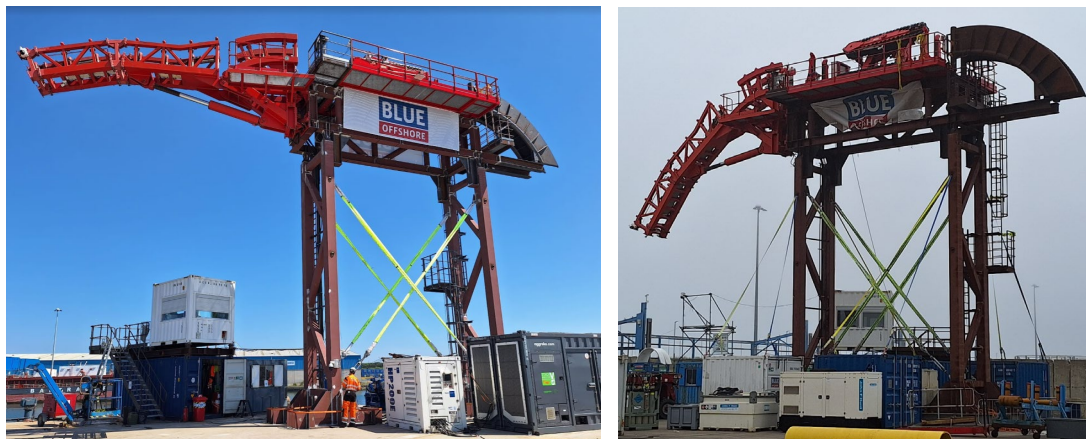


Figure 5 • Modular LT03 with 15t Tensioner

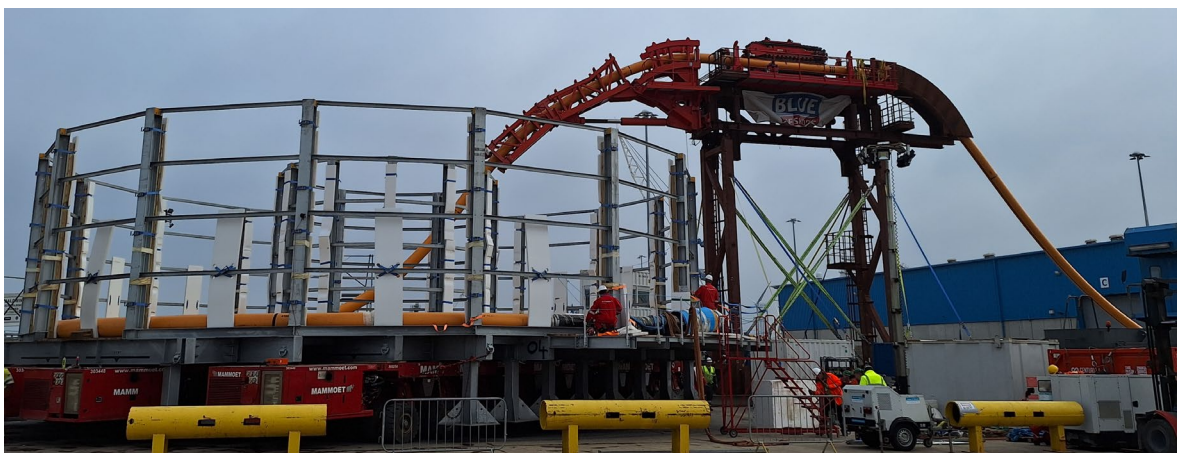


Figure 6 • Load-Out from Storage Tank

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Figure 7 • Loading the flowlines into the tanks on the barge

### 3. Timing

The contract was awarded in February 2023. Design & build and delivery of the Loading Tower 03 was done in 12 weeks and under the supervision of Lloyd's Register.

- Operation of the 1<sup>st</sup> campaign June 2023
- Operation of the 2<sup>nd</sup> campaign February 2024
- Operation of the 3<sup>rd</sup> campaign July 2024-Oct 2024



Figure 8 • Load-Out from Storage Tank to HLV

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