Celebrating 125 years
MALIN ABRAM
Established in 1899

CONTRACT RECORD M487

FEED STUDY: ENGINEERING SUPPORT

LOWTHER ROLTON

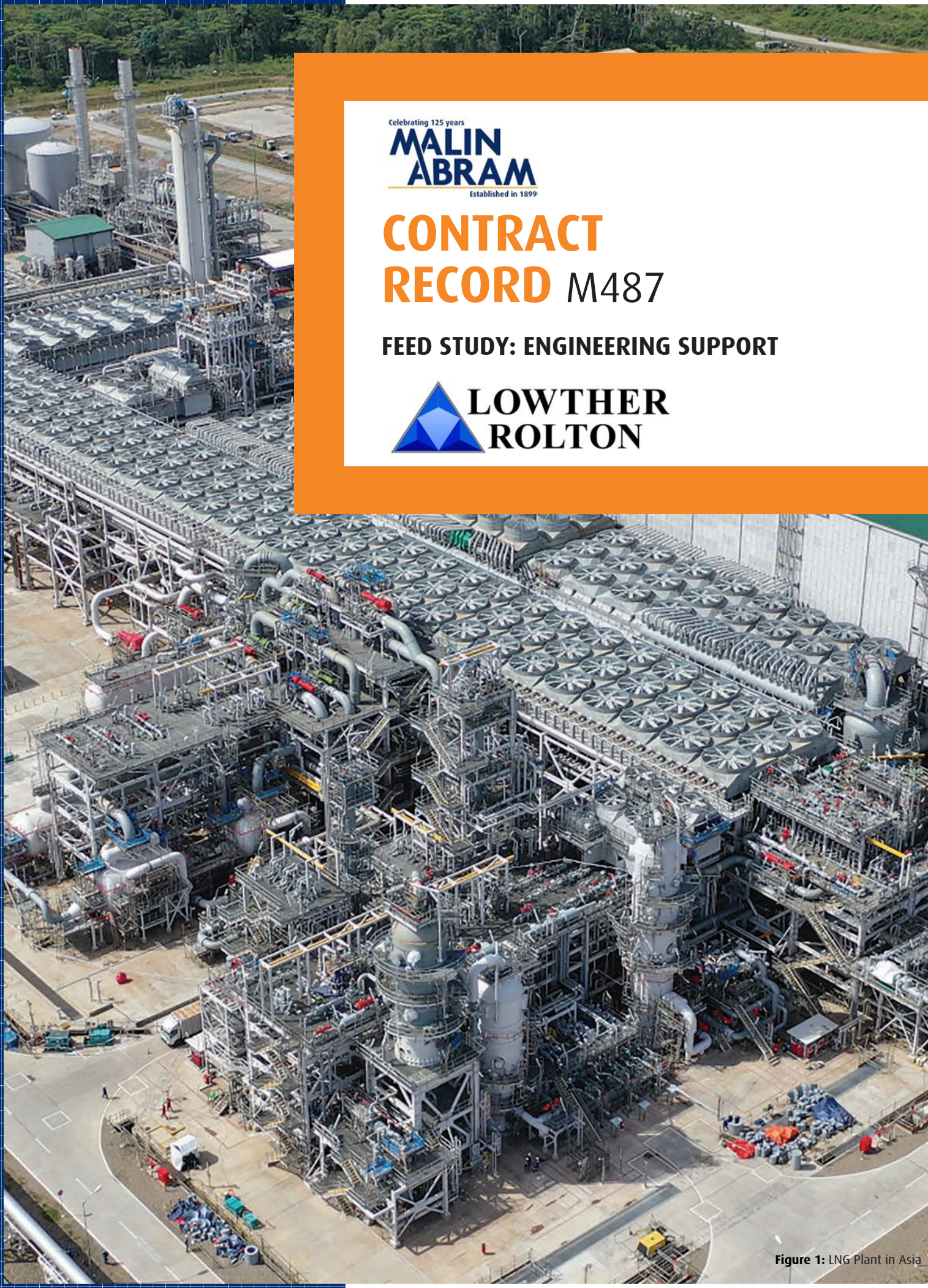


Figure 1: LNG Plant in Asia

CONTRACT RECORD M487

Scope

Malin Abram (MA) were contracted by Lowther Rolton to provide engineering support in their FEED Study for the transportation of various modules to an LNG Plant in Asia. Malin Abram produced a detailed technical report covering the aspects below.

Suitability of 300-foot Barge for Module Moves

This formed the main basis of the Malin Abram scope where we covered the following:

- Load in feasibility for a proposed barge at the offload facility quayside providing the following findings:
  - Fully engineered ballast plan
  - Recommendations and comments on the practicality of the operation as well as any restrictions such as tidal windows
- Analysed the barge transit stability based on the proposed stowage plan
- Dredging recommendations for the berth pocket and channel based on our findings

Review of 300-foot Barge Mooring Arrangements

Malin Abram carried out a mooring analysis in Orcaflex for the proposed barge producing the following within our report:

- Orcaflex analysis which illustrated bollard utilisations and line tensions based on a proposed stowage plan and across a range of expected tides
- Proposed mooring arrangement drawing

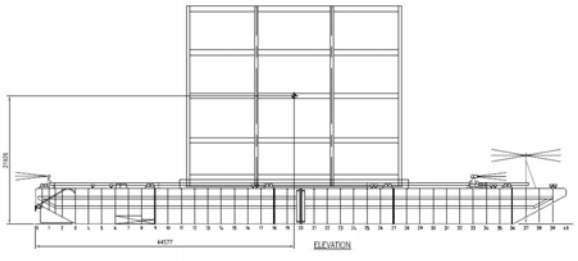
Review of Heavy Transport Plan

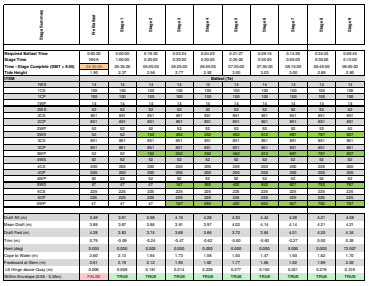
Malin Abram were able to apply our expertise to provide comments and recommendations on the client's proposed module transport plan which included:

- Routing and marine logistics
- Marine selection such as barges, stowage and tugs
- Operation control
- Grillage design and layout
- Seafastening methods

Conclusion

Overall this project highlights the capabilities of Malin Abram to provide engineering support by applying our knowledge and expertise in the field of marine transportation and load-out/in operations.





Figures 2 & 3: Stowage plan; Ballast plan

LOWTHER ROLTON

www.malinabram.com