

Jetty Engineering

Buisier Engineering provides Engineering for oil & Gas Jetty construction, repair and upgrade I, which is conducted according to the standards set by Oil Companies International Marine Forum (OCIMF) and Society of International Gas Tanker and terminal Operators (SIGTTO) and Best Engineering Practice (BEP).

Location parameters and structure projected functions are defined carefully before design process is commencing. Jetty substructure and topside are designed; the Substructure design covers both the piling and the structure of the Jetty, while the topside design covers the transfer system, the mooring and berthing system, the safety and environment protection system, the communication system, and the corrosion protection system.

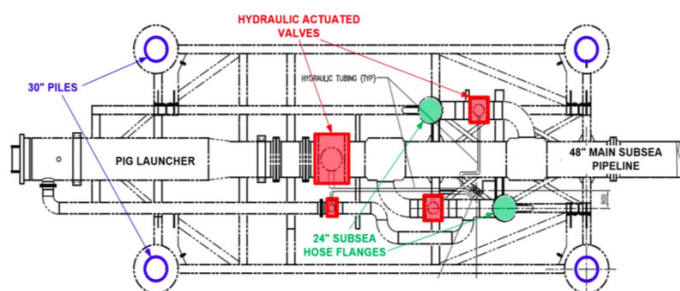
CALM Engineering

Buisier Engineering provides Comprehensive design for Catenary Anchor Leg Mooring (CALM) to oil and gas clients. The task of designing a CALM is conducted according to the Rules of the American Bureau of Shipping (ABS) as specified in Publication (pub 08), and other relevant technical best practice guidelines by API, ASTM, ASME, ANSI, NACE, OCIMF and in compliance with ISO 9001.

The following parameters are covered in the design package; Site and environmental conditions, design vessel configuration, determine the best mooring configuration, determine design loads, structural design and stability, mooring and anchoring requirements, material used, welding and fabrication, product transfer system configuration, pipeline end manifold (PLEM), hazardous area and electrical installations, safety provisions, transportation, installation procedure, and testing.

Seabed Pipeline & Risers Design

Buisier Engineering Designs Subsea pipeline and risers is accomplished according to API, ANSI, ASTM and NACE standards, and based on the data obtained by Bathymetric and Metocean study of the project location.



The design process comprises; pipeline route selection, flow assurance, pipe material selection, pipe coating, pipe wall thickness design, thermal expansion design, pipeline on-bottom stability design, pipeline free span analysis, pipeline shore approach, riser design, cathodic protection design, pipeline installation and testing.