

Engineering, Procurement, Construction & Commissioning



Overview

As a well established, vastly experienced and multi-disciplined contractor, Whessoe combines proven technology, quality and safety with global capabilities in Engineering, Procurement, Construction and Commissioning (EPC&C) to deliver comprehensive and value-engineered solutions to clients in the hydrocarbon, petrochemical and energy industries.

Whessoe has an engineering and contracting pedigree dating back over 200 years. Over the last 40 years, we have developed specialist expertise in the storage and handling of liquefied gases in cryogenic, low temperature and pressurised forms.

From our UK base, we combine our experience in Project, Contracting and Risk Management with sound engineering and design skills to offer clients a single focal point for the completion of their project requirements.

Comprehensive knowledge and capability around the globe

Our engineers are renowned for their skills in providing technically and commercially strong project solutions, based on their involvement in the value engineering process developed through experience with, and responsibility for, full EPC projects.

Whessoe is able to take a project through the full life cycle, from concept, scoping studies and front end engineering design (FEED), through to full EPC, commissioning and readiness for operation, as principal contractor or in a PMC role.

We use our widely recognised expertise to undertake contracts from existing tank integrity, revalidation and

life extension services, through to full development and build of new green field LNG import terminals.

Our main focus is on high integrity, quality assured systems and structures for cryogenic and low temperature service, including LNG, ethane, ethylene, propylene, LPG and ammonia. We have been responsible for more than 120 cryogenic and ambient storage projects on all five continents, including:

- 6 LNG terminals
- 17 LNG tanks
- 32 LPG tanks
- 26 ethylene tanks and their associated process facilities.

Health, safety, quality and environmental priorities

Whessoe's policy statements show our commitment to H&S for our workforce, the public and our clients' operational personnel, through good engineering practices within CDM guidelines, and the implementation of proven and well developed H&S management plans.

We are equally committed to providing engineering and construction solutions which carefully consider any potential environmental impacts, and we incorporate aspects of sustainability within our operations.

With handling potentially harmful or dangerous liquids and gases, it is imperative that we meet the appropriate quality standards in our work to ensure the safe and long-term operation of our engineered facilities.



PROJECT MANAGEMENT

The ability to control and manage a project through all of its phases is critical, and Whessoe has accredited quality systems and procedures in place to assist the process.

Whether the requirement is for the collation and assessment of data for a feasibility study, the management of an EPC turnkey project or the provision of a PMC team, we have the capability and experience to deliver.

ENGINEERING

Whessoe can provide a full engineering service to our clients from concept through to fully detailed design. As a full EPC contractor, all our designs start with the determination of an appropriate execution philosophy to establish a suitable configuration and construction methodology and procurement strategy.

Taking into account location, topography, weather, local facilities, logistics, process safety, and associated codes and standards, we provide an engineering solution and execution plan that addresses the full project criteria for our clients.

Our Engineering Group covers project, process, piping, instrument, electrical, mechanical, equipment and civil/structural disciplines, with a specialist technical services section responsible for welding, tankage, NDE coatings and insulation.

We use the latest engineering and design techniques, utilising industry standard software, both procured and proprietary, backed up by knowledge gained from previous projects and coupled with fabrication, construction, testing and commissioning experience to provide true, cost-effective and safe designs.

PROCUREMENT

Whessoe's expertise spans the entire supply chain, from sourcing, purchasing and transportation logistics to inventory control, inspection and quality assurance. Each and every product and service we use has to comply with our demanding quality and safety requirements.

Over the years, we have developed strong relationships with key industry suppliers, manufacturers and service

providers. We carry out competitive bidding and negotiate long-term agreements to obtain competitive prices for materials and services, to ensure delivery of materials and equipment within the project schedule timeframe and to meet construction requirements.

CONSTRUCTION

Our experienced construction managers and engineers work closely with the engineering and procurement functions to ensure that constructability, modularisation, logistics and safety are fully considered in the design and supply process. Whessoe can utilise its experience to develop robust construction execution strategies and work with partners, sub-contractors and suppliers to maintain a commitment to a safe project delivery.

Construction procedures, methods, build sequences, schedules and guidelines have been developed and are continuously improved through our worldwide experience as a Construction Contractor and Subcontract Manager. This experience has also enabled us to build up a strong awareness of the major risks associated with construction, and to implement measures to reduce them through design, modularisation, standard construction method statements and specific risk assessments.

COMMISSIONING

Whessoe's experience in dealing with cryogenic and low temperature liquids means that we ensure that cool down and commissioning philosophies are incorporated within the basic design of our tanks and plants.

We have developed a controlled process via our database for mechanical completion, pre-commissioning, cool down, commissioning and performance testing to ensure the safe commissioning of projects. This expertise is also utilised for de-commissioning existing tanks and plants for revalidation and their subsequent re-commissioning.

WHESSOE - A SINGLE FOCAL POINT FOR DELIVERY OF YOUR PROJECT

