

Hyperbaric testing to simulate ultra deepwater conditions

Effective Subsea Component testing to 6,382 psi (440 bar) – equivalent to 14,436 ft (4,400 m) conditions

Proving & improving reliability

Our ongoing commitment to deliver the highest possible standards of equipment safety and reliability demands both rigorous and routine hyperbaric testing. The GE Oil & Gas hyperbaric test facility is located at our Subsea Controls assembly and test site in Nailsea, England.

This state-of-the-art facility enables precise monitoring of subsea control modules (and other subsea components) while chamber pressure is increased to the extreme levels found in deepwater subsea operating environments. Our vigorous test program identifies any potentially critical issues and corrects them before installation – resulting in significant cost savings for subsea projects.

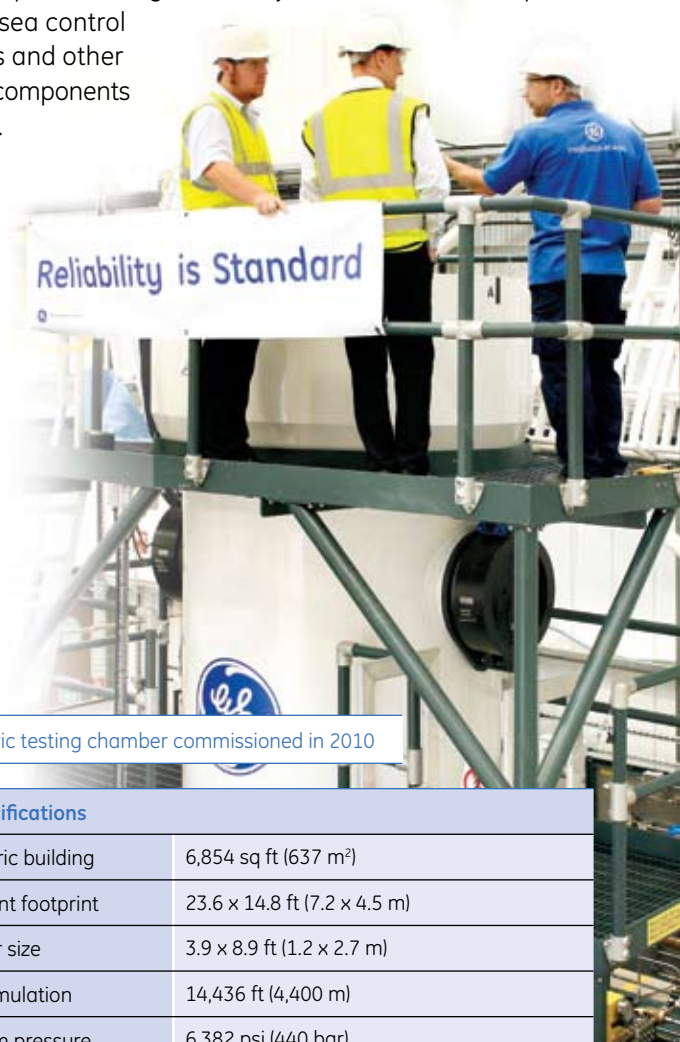
Hyperbaric testing is the only way to effectively simulate subsea conditions and to verify the reliability of hydraulic and electrical components at depth. As such, it is the final opportunity for product assurance under hyperbaric conditions before site integration testing (SIT) and delivery of the finished product for offshore installation.

Dedicated to quality

The reliability of subsea oil and gas production facilities fundamentally determines production availability over the life of the field. Our goal is always to maximize that availability and minimize operating risk.

By now having a hyperbaric test facility immediately adjacent to our main assembly facilities we are able to take greater advantage of support from our comprehensive on-site engineering resources. An on-site facility gives greater flexibility to modify test regimes, including retesting where necessary, and increases overall productivity. The

facility is also available for our product development and product qualification activities; a characteristic of precision OEM companies. Using this facility we are able to test up to 300 subsea control modules and other subsea components per year.



Hyperbaric testing chamber commissioned in 2010

Key specifications

Hyperbaric building	6,854 sq ft (637 m ²)
Equipment footprint	23.6 x 14.8 ft (7.2 x 4.5 m)
Chamber size	3.9 x 8.9 ft (1.2 x 2.7 m)
Depth simulation	14,436 ft (4,400 m)
Maximum pressure	6,382 psi (440 bar)



GE imagination at work

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