

Nailsea, UK

Subsea Production Controls
Center of Excellence

2 High Street
Nailsea, Bristol, BS48 1BS

T +44 1275 810100
F +44 1275 851467



Key technology



Subsea Controls

Primary Products & Services

- E/H Mux Subsea Production Control Systems
 - Subsea control modules
 - Subsea instrumentation
 - Subsea utilities distribution networks
 - Topsides control stations
 - Topsides power conditioning equipment
- Smart applications for remote monitoring & diagnostics of subsea facilities
- Smart applications for flow integrity monitoring & control
- Subsea controls concept definition & FEED studies

Established in 1977, the GE Oil & Gas Center of Excellence for Subsea Production Controls systems, based in Nailsea, serves as our worldwide base for design, manufacture, integration and testing.

It is the primary location for all project management, engineering, procurement, and product development activities for GE Oil & Gas Subsea Controls systems projects worldwide.

The site is fully equipped to deliver key control system units for oilfield development projects, providing our customers with long term oil and gas production from their subsea reservoirs.

This state-of-the-art manufacturing facility includes capital plant for hyperbaric testing (simulating ultra-deepwater applications) and high-bay workshops to conduct extended factory acceptance tests.

Certified to ISO 9000-2000 and ISO 140001, the Nailsea facility applies Six Sigma methodology to its business processes to ensure the highest possible levels of quality and repeatability across all site activities.



GE OIL & GAS

GE Oil & Gas is a world leader in advanced technologies and services, with 43,000 employees in more than 100 countries. We work closely with customers across the entire industry – developing and delivering innovative solutions to their real operating needs. Our customized service solutions, training programs and advanced technologies help them maximize efficiency, productivity and equipment reliability as they adapt to increasingly complex challenges.

SUBSEA SYSTEMS AT WORK AROUND THE WORLD



- 6,100 employees
- Operating in 11 countries across Europe, Africa, Asia Pacific and the Americas
- 11 Manufacturing sites
- 11 Service facilities



Maximizing efficiency and quality assurance

Site layout



Area	m ² (ft ²)
Total Site	5 acres
Office Accommodation	13,000 (139,900)
Workshops	13,500 (145,300)
Hyperbaric Test Chamber	Pressures up to 440 bar
Environmental Stress Screening	8 chambers
Shock & Vibration Test Facility	<ul style="list-style-type: none">• Up to 75g (random) acceleration• Frequency d.c. to 3 KHz
Clean Room facilities for Hydraulic Components	2 x 36 sq. metres Meets ISO 1464401 Level 7/8
Automated FAT for Subsea Control Modules	2 stations
Hydraulic Proof Pressure Test Bays	To 20k psi

Key Facts

- State-of-the-art electronics manufacturing facility
- Life-of-field refurbishment workshop for subsea electronics modules
- Multi-disciplinary engineering department
 - Electrical and electronics design
 - Marine mechanical and hydraulics engineering
 - Software development
 - Materials science
 - Analysis and simulation team
- Systems engineering team with significant domain expertise
 - Over 35 years of project experience for subsea controls
- Dedicated project execution teams for worldwide customer projects
- Quality assurance and quality management team including 'Black Belt' Six Sigma capability

Track Record & Experience

The Nailsea, UK facility has equipped subsea oil and gas field developments around the globe, and in most of the offshore oil and gas producing regions – West Africa, Mediterranean Sea, offshore Brazil, the North Sea, Barents Sea, Gulf of Mexico, Western Australia and the Asia Pacific region.

Our clients include the major International Oil Companies as well as some of the medium sized operators and the smaller independents. Our subsea production control systems control wells for oil and gas production, water and gas injection, and for a range of field developments from smaller 2-3 well assets to those requiring many tens of wells.

Our most sophisticated technical solutions have already been prepared for anticipated future needs - often referred to as the 'subsea factory', where high integrity remote control is an essential component.



GE imagination at work

geoilandgas.com