SAFE AND SECURE

Safety and Automation Systems
Oil and Gas

www.sellacontrols.com
Oil and Gas Applications

Experts in Global Safety Solutions...

For over 40 years, SELLA CONTROLS has been actively involved in the design and delivery of hundreds of control and safety systems to the Oil & Gas industry - onshore and offshore.

Our expertise encompasses a wide range of engineering applications and we provide bespoke solutions for use up to and including Safety Integrity Level (SIL) 3. With considerable experience in the supply of SCADA and Process Control Systems and Safety-related Shutdown Systems including; ESD, PSD and HIPPS, Burner Management and Fire & Gas systems, we have the capability to deliver a full range of solutions from smaller compact control systems to complex, distributed, integrated systems, which incorporate both safety and control applications.

SELLA CONTROLS is a founding member of the 61508 association and in 2001 was awarded the first SIRA CASS certificate for Functional Safety Management, an accreditation we have retained ever since. Our team of competent engineers includes a number of TÜV certified Engineers and Experts. This underlines our ongoing commitment to demonstrating the standard’s best practice, underpinned by SELLA CONTROLS’ principles of integrity, transparency and consistency.
At **SELLA CONTROLS** we have a history of delivering cost-effective and compliant safety system solutions using our extensive knowledge of the Oil and Gas industry and its regulatory regime.

We use the very latest technology of our product partners (HIMA, Mitsubishi etc.) combined with extensive systems integration skills to meet the demand for scalable safety and control solutions that do not compromise safety requirements. This, coupled with our extensive knowledge of the offshore regulatory regime and a comprehensive range of post installation technical support and training, is available to fully support the systems we have installed.

The following examples illustrate our range of applications:

**Burner Management Systems (BMS)**
- Terra Nitrogen (Teesside) PES Based BMS
- Karsto (Statoil) PES based BMS for Heat Recovery Steam Generators
- Esso Fawley (Esso) Hardwired solid-state HIMA Planar 4 BMS
- Tengiz Oilfield, Kazakhstan Safety related PES for Burner Management System

**Emergency Shutdown Systems (ESD) and SIS**
- Coryton Refinery (Petroplus) Replacement of 10 Programmable ESD systems
- Terra Nova FPSO (Suncor) Topsides and Turret ESD systems
- Buzzard Field (Nexen) Solid state ESD system
- PS1-R (Occidental) ESD for offshore platform operation
- Flyndre and Cawdor (Repsol) Safety Instrumented System (SIS)
- Snohvit LNG Facility (Statoil) Multiple Safety Systems, ESD, HIPPS, SIS.

**Fire and Gas Detection Systems (F&G)**
- VOC Recovery, Conoco Philips Fire & Gas System based on HIMA HIQuad plus remote ESD and Control System
- Maersk Location D & E HIMA HIQuad ESD Fire & Gas Systems
- Transco (Tyco Wormald) HIMA H51q Fire & Gas Systems
- Kittiwake Platform (Enquest) Fire and Gas Detection System

**Integrated Control and Safety Systems (ICSS)**
- Huntsman Llanelli (Wales) Integrated Thermal Oxidiser Control and Safety System
- Tengiz Oilfield (Kazakhstan) Integrated Control and Safety System for Natural Gas Gathering System (NGGS) 23 Locations
- Tengiz Oilfield (Kazakhstan) Integrated Control and Safety System for Gas Export Expansion Project (GEEP)

**High Integrity Pressure Protection Systems (HIPPS)**
- Zakum Gas Injection (ADMAOPCO) HIMA Planar 4 solid state offshore HIPPS
- Ormen Lange Slugcatcher (Mokveld) 4 off HIMA Planar 4 solid state onshore HIPPS
- Karsto (Statoil) onshore HIPPS
- Qasr Gas Development (KPC) HIMA Planar 4 onshore HIPPS

**Supervisory Control & Data Acquisition (SCADA)**
- Coryton Refinery Denim Plant (BP/AMEC) Replacement Control System (Citect)
- BP Grangemouth Refinery Pilot Plant Control and Trending on SCADA AXEDA (Wizcon)
- Well Heads, Al Shakeen (Maersk) SCADA (iFIX)
- PS1K & PS1R Offshore Platform (Occidental ESD system HMIs (Citect)
Located in Stockport, Cheshire Sella Controls has easy access to the motorway network, mainline railways and Manchester International Airport. Sella Controls has custom built offices and workshops providing:

- **Consultancy**
  - Lifecycle Services • Risk Assessment • SIL Determination
  - Independent Assessment (FSA) • Third Party Certification

- **Project Management**
  - On time delivery of project • Regular customer contact
  - Agreed milestones to monitor progress

- **Design**
  - Detailed Hardware Design • Software Development • Auto CAD

- **Engineering**
  - Functional Design Specification • Software Specification
  - Safety Requirements Specification

- **Manufacturing**
  - Panel Build • System Build • System Integration

- **Testing**
  - In-house • Factory Acceptance Testing • Site Acceptance Testing

- **Commissioning**
  - System Inspection • Support during Start-up

- **Technical Support**
  - 24 hour call out support • Upgrade/Modifications
  - Maintenance (IEC 61511 life cycle) • Proof testing

- **Training**
  - Hardware/Software Design • Maintenance and Servicing
  - Customised courses

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