



# + Oil & gas process safety solutions

CLOSING THE GAP BETWEEN PROCESS SAFETY  
AND OPERATIONAL EFFICIENCY



**sensia**

Rockwell Automation + Schlumberger







# + Solving process safety challenges. From wellhead to refinery.

**Our team of domain experts integrate digitally enabled process safety solutions alongside intelligent automation to help you minimize risk, improve efficiency and enhance performance. Operation-wide.**

Sensia delivers engineered modular and turnkey automation solutions to manage costs, maximize up-time and extract the most value possible from new and existing assets. Maintaining the safety of your personnel, assets, and the environment in which you operate in the process.

Our process safety experts take the time to fully understand your process, control and safety needs to engineer scalable solutions that reduce safety shutdowns, improve performance and help oil & gas operators remain competitive.

## **SCALE MATURE ASSETS UP OR DOWN WITHOUT COMPROMISING SAFETY**

Our domain experts understand the unique connectivity, reliability and security challenges posed by aging equipment. Whether you're looking to upgrade production, transportation or processing to meet new standards, upscale, downsize or overcome obsolescence – we can work closely with you to integrate the most effective off-the-shelf or bespoke engineered solutions.

# + Get process safety right from the start

Changing standards. Reducing emission targets. Catastrophic incidents. The earlier you engage our team, the more effective we can be. Early engagement and phased development can help to maximize your opportunity to avoid costly setbacks and reduce total cost of ownership of your plant over time. Meaning getting process safety right from the start really does pay - whatever your production, transportation or processing challenge.



## PROCESS SAFETY FOR OIL & GAS PRODUCTION

- + Wellhead safety (including HIPPS, F&G)
- + Tank batteries overfill prevention
- + Burner management
- + Fire and gas systems
- + HIPPS systems
- + Processing facilities SIS
- + Offshore platforms ESD, PSD, Fire & Gas
- + Shutdown relay panel replacement
- + Non-compliant safety system migration
- + Obsolescent system migration



## PROCESS SAFETY FOR OIL & GAS TRANSPORTATION AND STORAGE

- + Valve station shutdown
- + Small pump / compressor station ESD
- + Fire and Gas
- + Medium to large Pump / Compressor station ESD
- + Shutdown relay panel replacement
- + Non-compliant safety system migration
- + Obsolescent system migration



## PROCESS SAFETY FOR OIL & GAS PROCESSING

- + Single Unit SIS
- + Multi-Unit SIS
- + Medium to large SIS
- + HIPPS
- + Fire and Gas
- + Shutdown relay panel replacement
- + Single unit SIS
- + Non-compliant safety system migration
- + Obsolescent system migration





# + Safety lifecycle services

Whether you're looking to support your risk assessment or process safety planning, generate sound safety specification or design and deploy your safety system - we can help. Empowering you to get it right from the start and functioning at its best, long into the future.

Safety is most effective when it is fully integrated with operational process over time. Sensia closes the gap between operations and process safety to continually understand and reduce risk - from planning to operations.



## SENSIA ICS TRIPLEX LEGACY PRODUCT SUPPORT AND MAINTENANCE

Upgrade options are available on most ICS Triplex legacy process safety systems - enabling customers to replace the processors only. This approach retains the installed I/O and field wiring, with the option to upgrade to meet operational requirements later. This valuable option offers enhanced capabilities, minimal downtime, and can be executed with the existing systems live in some cases.

For customers of the Plantguard systems and modules, we have a direct, factory-set replacement. Simply install the Alternative Trusted® Modules as you would a regular spare replacement. In doing this, you maintain full product support.

In addition, we can provide a range of support services, including: technical, product, and system support, product repairs, routine and special maintenance, system modifications, extensions, and upgrades. A system upgrade can be simple when the originally installed legacy I/O and field installations are retained.

## CASE STUDY

# Repsol SIS migration

## UNEARTHING OPERATIONAL BENEFITS ON A GLOBAL SCALE

### CHALLENGE

- + Replace existing safety instrumented systems (SIS) at two production facilities to comply with new, internal safety standard
- + Reduce risk of downtime associated with aging equipment and improve visibility into system performance

### SOLUTION

- + SIS provides easy integration with existing installed base in SIL 2 application
- + System alarm and event capabilities provide better visibility into the systems' performance and downtime issues

### RESULTS

- + SIS complies with Repsol's new, corporate safety standard
- + Migration to new technologies reduces risk of downtime
- + Reduced spare-parts inventory by standardizing on one platform
- + Improved system visibility helps operators more quickly troubleshoot and predict failures
- + Ability to meet higher SIL requirements provides greater system flexibility

# + Sensia process safety

The safety and productivity of people, machines, and the environment is a key element of any sustainable business.

After all, studies show that best-in-class performers achieve higher overall plant efficiency – with less unscheduled downtime and safer operations – without compromising performance. Our best in class process safety knowledge and expertise can help you develop safer, more productive solutions.



## MEET YOUR OPERATIONAL GOALS. SAFELY.

By bringing together our range of process automation solutions with our team's deep process safety expertise – we have all the tools you need to optimize plant performance while meeting your operational and safety goals. Giving you the power to meet operational targets without compromising your people's safety.

## A FULLY INTEGRATED APPROACH

Having multiple systems to control your process, manage electrical devices or provide safety in your plant makes it more difficult for any operator to simultaneously maintain tight and effective control of all processes while maximizing output. With Sensia you can rely on completely integrated systems to provide complete visibility into your plant – allowing full control of all your assets while maintaining the highest levels of safety. All in one operating environment.

## CASE STUDY

# E&P overcome obsolescence

## IMPLEMENTING TRUSTED SOLUTIONS TO RAISE STANDARDS

### CHALLENGE

- + The delivery of an upgraded control and safety system with minimal disruption to operations and, critically, they had to carry out all upgrade activities in a safe manner.

### SOLUTION

- + Trusted TMR ESD controller
- + Trusted TMR F&G controller

### RESULTS

- + Concurrent installation and effective use of scheduled downtime meant there was negligible impact on production
- + Remote platform control
- + Commonality of spares, maintenance and vendors across sites
- + Utilisation of existing equipment, such as safety system infrastructure and cabinets
- + Nominated for HSE safety award





# Solving challenges from the reservoir to refinery. One challenge at a time.

**We collaborate with all stakeholders to make the production, transportation and processing of Oil & Gas simpler, safer, more secure, more productive and better understood from end-to-end. Sensia is making the advantages of industrial-scale digitalization and seamless automation available to every Oil & Gas company. Now every asset can operate more productively and more profitably.**

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