

SERVICE BRIEF

Virtual Commissioning

Commission your control system against a simulated plant before it reaches site.



Site commissioning is the most expensive place to find a mistake. Crews wait, production waits, and logic gets fixed under pressure on live equipment. Virtual commissioning moves most of that work earlier: the real control program runs against a simulated plant, so sequences, interlocks and screens are proven before anyone travels.

THE CHALLENGE

Find the problems before site does

Time on site

Commissioning holds up production

Testing on live equipment

Risky tests on real plant

Late surprises

Interfaces meet for the first time

Operators not ready

No chance to practise

WHAT WE OFFER

What virtual commissioning covers

Emulated controller

The real program in an emulated PLC

SCADA and HMI against the simulation

Screens tested end to end

Changes to running plants

Prove changes before download

Simulated I/O and plant behaviour

Equipment and process that respond

Sequence, interlock and fault testing

Every sequence and fault path tested

Witnessed tests and familiarisation

Witness early, practise early

HOW WE DELIVER



What you receive

- ✓ Simulation model and scope
- ✓ Sequence and interlock test pack
- ✓ Tested program version and change log
- ✓ FAT and SAT protocols and records
- ✓ As-built source code
- ✓ Inspection and test plan
- ✓ Test records and deviation register
- ✓ Alarm list and HMI interface
- ✓ Functional design specification

How we prove it

- Each test traced to a requirement in the functional design specification
- Results recorded, with failures logged, fixed and retested
- The tested program version recorded, so site runs exactly what was proven
- Simulation writes are confined to the emulated controller, never to a real one
- Your engineers can witness any test before factory acceptance

OUR ANSWER

The real control program, proven against a simulated plant, before site.

ISO 9001 certified • Cyber Essentials • CHAS • Constructionline • SafeContractor

Talk to us about virtual commissioning

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