



**The Shepley Group**

# Commissioning.

The Shepley Group offer Commissioning solutions to clients operating in highly regulated industries. Robust processes and procedures delivered by a suitably qualified and experienced team ensures compliance with industry regulations. **As a competent ME&I installation contractor, commissioning capability enables us to offer full turnkey solution.**

# Delivering **mission-critical** projects to the nuclear industry.

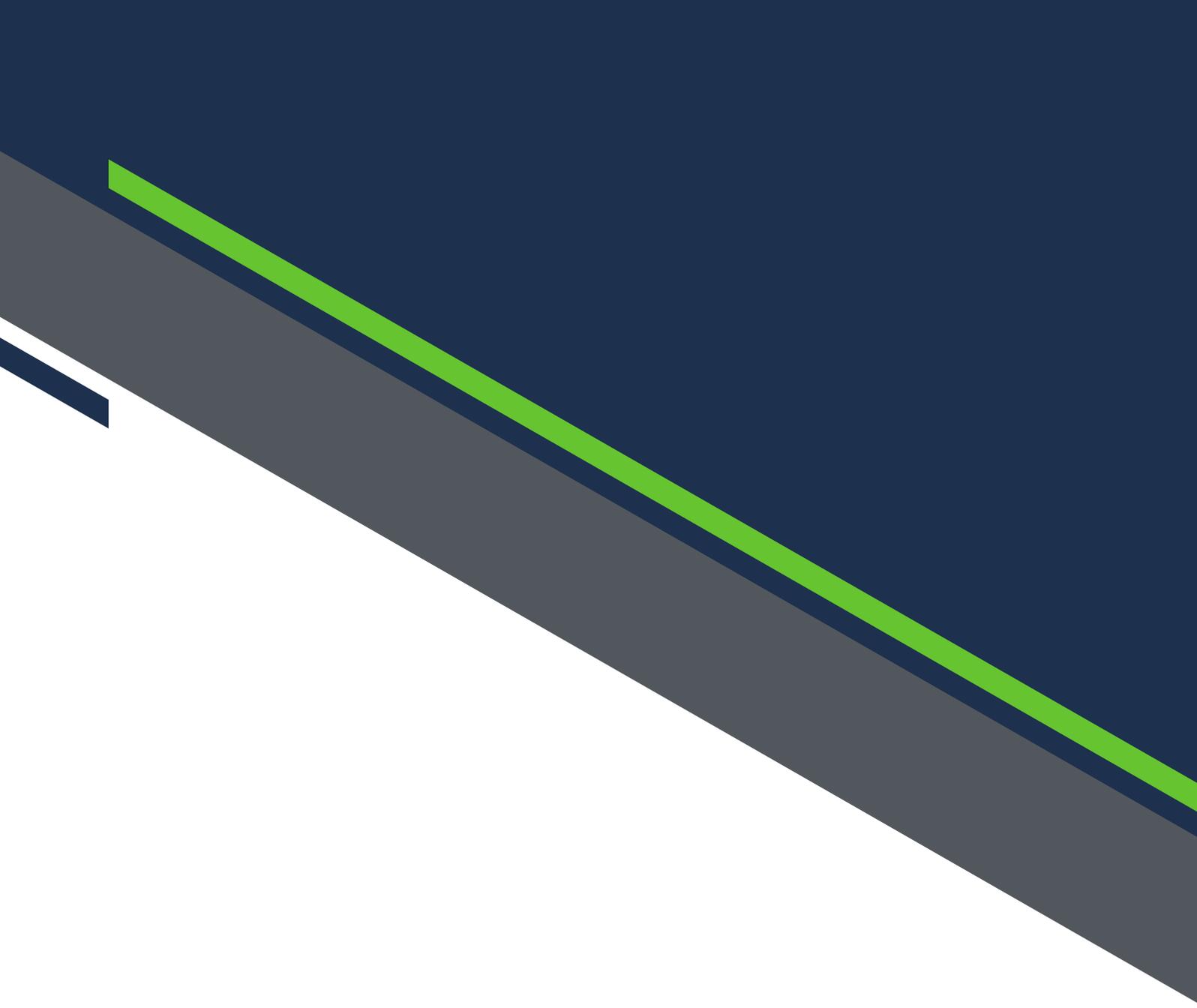
## About us.



The Shepley Group is comprised of Shepley Engineers and two wholly owned subsidiaries, West Cumberland Engineering and PPS Electrical. Shepley Engineers are the longest-serving continuous contractor, and the Group has one of the largest security cleared MEICA delivery teams on the Sellafield site.

The Shepley Group's commissioning capability was introduced in September 2023 following a Strategic Review, enabling us to offer a full turnkey solution. Our wide range of services offered means that we are engaged in a number of capacities from main contractor to sub-contractor and in some instances as advisor and consultant. We work individually or in collaboration with complimentary service providers or partners. It has been necessary to develop our processes, systems and culture to be effective and responsive across the full range of these engagement arrangements.





## Our Vision

Continue to develop high-performing people and strive to build a legacy of excellence.

## Our Group in numbers

Workforce

**745**

Commissioning Capability

**15**

# What we do.

## Commissioning Execution

- Process, Mechanical, EC&I and HVAC capability
- Commissioning Safe systems of work
- Management of Permit to Work systems

### Mechanical

- Pre energisation tests
- Energisation tests
- Leak tests
- Service tests
- Maintenance instruction validation

### HVAC

- Pre-energisation tests
- Single item operations
- System balancing
- Power fail tests
- Negative testing

### Electrical Control and Instrumentation

- Pre-energisation tests
- Energisation tests
- Input / output logic tests
- Hardwired interlock logic tests
- Proof tests
- Integration tests
- Data acquisition
- Programming
- Calibration – Instrument and loop tests
- Safety testing



Electrical panel manufacture and testing



## Early Works

- Support and witness Factory Acceptance Testing
- Facilities to carry out off-site testing
- Management of Off-site testing rigs
- Research and development trials

## Documentation

- Development of project commissioning strategies
- Test Schedules
- Commissioning Safety Plans
- Inspection Test Plans and Quality Plans
- Test Documentation and Worksheets
- Design support - input to design reviews
- Commissioning estimates and program

# Accreditations.

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**ISO 9001**

Quality Management



**ISO 14001**

Environmental Management



**ISO 45001**

Health and Safety Standards

# Case Study.

## B242 FLOC Retrievals.

The B242 Floc retrieval project is a remediation decommissioning project reducing high-hazard risk on the Sellafield nuclear licensed site. The project is a design, build and commission contract and is managed by a partnership. PPS Electrical Ltd are responsible for all testing and commissioning required to complete the project. The project is currently in-flight and is nearing completion of on-site construction.



### More Case Studies?

Read our full case studies online at  
[www.shepleyengineers.co.uk/case-studies](http://www.shepleyengineers.co.uk/case-studies)  
or scan the QR code



## **Factory Acceptance Testing**

The project has a significant amount of novel and bespoke equipment built into the design. The Commissioning team has undertaken key roles during FAT, this included reviewing test documentation, attendance at pre-FAT meetings, attendance and hands on support at FAT, identifying and executing additional testing to de-risk on-site installation and testing. This project has benefitted hugely from FAT where several issues have been identified and rectified prior to moving into the next stage of the project. Equipment where significant benefit has been achieved includes the MCC electrical panel suite, air compressor, transfer pump, CCTV system and C5 containment cabinets.

## **Integrated Works Testing**

From a very early stage, the project identified the need to undertake Integrated Works Testing. The equipment was bespoke and there was significant risk within the design regarding the integration and performance of the equipment. The project team made the necessary investment in both time and cost to ensure that IWT was of benefit. The Commissioning Team was made responsible for the delivery of IWT, this included management of safety, documentation, execution, configuration management, change control, fault observations and defect rectification. The Commissioning Team adopted a structured approach to delivery of IWT that proved to be safe, efficient and of significant benefit in both underpinning the design and reducing the risks on site. IWT test documentation underwent the same level of governance that site test documentation does i.e. Commissioning Document approval group (CDAG). The key achievements are:

- No accidents or incidents during execution of IWT.
- Executed successfully using our safety management and commissioning arrangements.
- Successfully achieving an Operation Plan Milestone on schedule.
- Test document strategy significantly reduced the site testing documentation dependency.
- Over 50 issues identified and raised de-risking the project moving forward.

## **Inactive Plant Commissioning**

The project is in preparation for IPC as the construction of the equipment on site is due for completion in January 2025. Our Commissioning team is actively involved in this preparation. The key deliverables identified are Commissioning Test documentation, training, handover and appointments.

- Review of Commissioning strategy and Plant Test Schedule undertaken at a CDAG meeting where the testing documents were prioritised in order of importance and governance arrangements agreed with the client.
- Our commissioning team has undertaken all the necessary training to ensure we are SQEP. This has included completing all the Client's requirements for working in a controlled area up to C5, electrical and mechanical nomination and regulatory requirements.
- Our team is involved in organising efficient handover of equipment by identifying systemisation and prioritising construction quality sign offs. The Commissioning team has generated a Handover strategy that the project stakeholders have agreed and signed up to. Our team has successfully completed Client appointments for Electrical Nomination and Mechanical Nomination.

## **Inactive Safety Commissioning**

3 Members of the team have been appointed SQEP by the Client for preparing and executing Safety Commissioning in line with the requirements for License Condition 21. Our commissioning team is responsible for the following during this phase.

- Preparing the Safety Commissioning Schedule and Safety Test Documents.
- Presenting at Safety Committee.
- Executing Safety Commissioning.
- Preparing the Safety Commissioning Report.
- Handing over to the Operations team

# Get in touch.



**The Shepley Group**

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 Shepley Group

 Shepley Engineers Ltd



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