

WORLD NUCLEAR EXHIBITION

Export Market Visit

30 November 2021 –
2 December 2021

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**This is Export.
This is Wales.**

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Wales is a self-governing constituent country of the UK and the Welsh Government is the devolved Government for Wales.

Devolved since 1999, the Welsh Government's decision-making powers within a small and joined-up country mean we can cut red-tape and act fast.

They also mean we are responsible for our own economic development, working with business to create a prosperous; green and equal economy.

Wales has a strong industrial heritage that has shaped our confident, creative and ambitious economy of today. We have strength in depth in advanced manufacturing, creative industries, energy and environment, financial and professional services, food and drink, life sciences, and technology.

Our commitment to sell Wales to the world has never been more focussed and this mission provides an ideal platform for us to build on established links and discuss future export opportunities.

Wales means business.

C&P Engineering Services specialise in providing hazardous area Ex E&I solutions to the nuclear industry.



Product/Service

C&P's hazardous area services can be combined to provide the total engineering solution, or divided into the following design, installation, inspection, maintenance, consultancy and CompEx electrical training services:

- Hazardous Area Ex Electrical & Instrumentation Inspection, Verification, Installation, Maintenance & Consultancy Services
- Hazardous Area Ex Electrical & Instrumentation Design
- SIS Engineering Design & Implementation
- Functional Safety Management Consulting – IEC 61508/61511
- Hazardous Area Risk Assessments (UK DSEAR)
- Hazardous Area Zone Classification
- Project Management
- CompEx Electrical Training Services:
 - Ex01-Ex04 Gas & Vapours Course
 - Ex05-Ex06 Combustible Dust Course
 - Foundation Ex F Course
 - Ex14 Responsible Person Course
 - Ex12 Design Engineers Course
- Hazardous Area Ex E&I Technical Support, backed up by TUV, ATEX/ Ex engineers and hazardous area subject matter experts

Objectives

C&P Engineering Services are looking to raise the company's profile for its specialised hazardous area Ex solutions and develop new business relationships in the nuclear industry.



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Since 1981, **Flamgard Calidair** has gained worldwide reputation for the excellence of designing and manufacturing high integrity HVAC dampers to the global oil and gas, marine, defence, tunnel and metro and power generation sectors. All products manufactured by Flamgard Calidair are compliant with rigorous global testing and are certified to the highest standards.



Product/Service

Designing and manufacturing an extensive range of HVAC equipment to include:

- Fire dampers
- Shut off/isolation dampers
- Zero leakage total isolation dampers
- Blast dampers
- Pressure relief dampers
- Non-return dampers.
- Intelligent volume control dampers
- Sand trap louvres
- Moisture eliminators
- Tunnel dampers
- High temperature isolation dampers

Objectives

Flamgard Calidair is looking to meet with key customers and develop its business across the region.



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Huntingdon Fusion Techniques were established in 1975. They are inventors, designers and manufacturers of pipe weld purging products.



Mainly supplying to the oil and gas and nuclear industries, HFT have vast experience of the types of applications that typically arise and have a range of solutions for almost any purging application. Their inflatable systems, for example, are available in tube sizes 1" to 96". These ingenious devices are designed to localise a small volume of pipe section to purge thus making savings in both time and money spent on inert gas, eg Argon.

They also manufacture a range of Weld Purge Monitors that measure the amount of oxygen within the purge gas from 1000ppm down to as low as 1ppm. The PurgEye 100 has become the monitor of choice amongst the welding fraternity assisting welders to achieve zero colour welds.

Product/Service

Inflatable Pipe Purging Systems
Oxygen Monitors
Pipestoppers®
Pipe Freezing Kits
Trailing Shields®
Weld Backing Tape
Tungsten Electrodes

Objectives

HFT already work extensively within the Nuclear Industry however there

are still many Contractors using home-made or foam dams and guessing purging times. HFT experts would really like to show these companies how they can produce zero colour welds, super quick and with cost saving. We would also like to demonstrate our capability of manufacturing purge systems and oxygen monitors for bespoke, unique applications.



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Since our inception in 2005, **Mona** has been closely associated with the nuclear industry. Our experience and expertise in bespoke lifting and materials handling equipment, and the design and installation of specialist cranes have allowed us to work with partners in the nuclear industry across the United Kingdom and Europe.

We work to exacting quality and safety standards and can engage directly with power station operators as well as providing expert consultancy and manufacturing to principal contractors and other stakeholders. We also have a multi skilled workforce for carrying out large scale site operations such as decommissioning or refurbishment of existing plant and equipment on nuclear and power generation sites.

Specialist Material Handling Equipment for the Nuclear Industry.

Consultancy, Design, Manufacture, Installation and Commissioning.

Product/Service

Design, manufacture, installation and commissioning of lifting equipment and steel fabrications.

Objectives

We aim to connect with potential new clients which would hopefully lead to new business for our company. Additional contracts would enable us to employ more personnel and apprentices and if we were able to bring

more business to the area that downflows to the local economy. Having gained a wealth of experience and knowledge working in the nuclear sector over the years we can offer a service where we fully interact with the client from project conception to completion. Our business model is based around working with the client as a partner rather than a customer.



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NWNA is a unique nuclear ecosystem, forming a cluster across north Wales and northwest England.

It incorporates all the facilities and capabilities across the whole nuclear lifecycle (fuels, generation and decommissioning) and is committed to enabling next generation nuclear technology to help meet our national net-zero ambition. The cluster provides sustainable, clean energy to the UK and supports high value local jobs, livelihoods and business growth in some of its most disadvantaged places.

Product/Service

The NWNA consortium consists of stakeholders from academia, business, the public sector and NGOs. Its members have a common vision of NWNA as an exemplar of a unique nuclear cluster delivering sustained social, environmental and economic value, following their decades of nuclear industry, innovation and R&D. Since the region hosts most potential sites for large, small, and advanced nuclear reactors, advanced fuels development and world-class environmental remediation, the NWNA cluster is of national importance.

Objectives

Our ambition is that NWNA will continue to enable the provision of clean energy, increase its position as the heartland of nuclear innovation in the UK, and support local jobs and business growth in some of our most disadvantaged communities.



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Teddington design & manufacture metallic expansion joints/bellows (thin wall & thick wall), Rubber bellows, Fabric bellows, PTFE bellows and Hoses. Teddington has been designing and manufacturing bellows since 1927 lodging a patent for one of the original bellows designs in 1928.



Teddington is considered as a world leader in their field and this is recognised by being Expansion Joint Manufacturers Association (EJMA) committee members. This code is followed by all expansion joint manufacturers and it is our role to help develop all future revisions to the code.

Teddington also has many Nuclear related approvals and experience including F4N, NUPIC, RCCm, ASME VIII, Rolls-Royce Nuclear Approved & GE Power Nuclear Approved.

Product/Service

Teddington offers a number of products and services, which include; Metallic products – A complete range of metallic bellows and expansion joints, as well as other associated Pipework accessories, such as flexible hoses and rectangular expansion joints. Non- Metallic Products – An extensive range of EPDM and Neoprene rubber bellows, fabric bellows, and PTFE bellows. NDT Services – Non destructive testing (NDT) services including dye penetrant, X-ray, MPI, Hydrostatic, Helium and ultrasonic at our purpose built factory or on-site. Fabrication Services – Fabrication of any structure or vessel

utilising a complete range of materials, welding techniques and methods.

Objectives

To showcase our experience and capabilities within the Nuclear Sector. To discuss progress regarding current Nuclear projects with key clients. To support our existing customer base, providing solutions for key challenges. To seek new business and customers globally within Nuclear.



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Design and manufacture of Pressure Vessels, Shell & Tube Heat Exchangers, Packaged Units (Skids), Columns, Tanks and Silos. Based in Bridgend, UK the company manufactures vessels ranging from small to very large.



Currently manufacturing deaerator vessels for the turbine hall at Hinkley Point C. These 330 tonne vessels combine carbon steel, austenitic stainless steel and ferritic stainless steels. We have also produced hundreds of super duplex specialist fabrications for the HPC marine tunnels project, including 300mm thick lifting lugs with a combined lift of circa 6,000 tonnes.

Product/Service

Vessco Engineering Limited carries out design and development in-house producing 2D and 3D drawings, FEA analysis, structural and pipe stress calculations. We have experience of RCC-M, CODAP, EN13445, PD5500 and ASME pressure vessel specifications and codes. The company is a member of the Wales Nuclear Forum and a leading manufacturer of pressure vessels for the nuclear industry.

In addition to about ten Hinkley Point C contracts, Vessco is currently manufacturing corrosion monitoring vessels for ITER in France, Thermo-Hydraulic experimentation vessels and pipework for Bangor University Nuclear Futures Institute.

Objectives

We would be pleased to talk to potential customers regarding design and build or manufacture from customer provided drawings and specifications.



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