

James Fisher Nuclear Pursues Global Marketplace

Monday 17th March 2014

JFN has presented two technical papers at the annual Waste Management (WM) Conference, in Phoenix, Arizona, March 2-6.

This is the first time JFN has presented at this conference which is widely regarded as the premier international conference for radioactive material management, decommissioning and site remediation. The conference is in its 40th year of the conference and attracted over 2,000 nuclear specialists from over 35 countries, presenting more than 600 papers in over 100 technical sessions. JFN's Head of Engineering, Geoff Ashworth, presented papers on JFN's new modular hydraulic power manipulator, ModuMan[®] and the design and construction of a modular, transportable, liquid effluent treatment plant for use in a nuclear power plant undergoing decommissioning. The subjects of these papers are both current multi million pound JFN projects for Sellafield and a UK Nuclear power plant respectively.

The first paper described all aspects of the development of the ModuMan 100 manipulator arm from the specification development, conceptual design, detailed design, assembly and testing of the system. The manipulator meets the specific requirements of a major decommissioning project for Sellafield, but due to the modular and configurable nature of the system design, it can be engineered to meet individual customers' specifications across a wide range of projects in both the nuclear and other industries. It delivers a minimum 100kg lifting capability throughout its operating envelope with a max reach of 2.3 metres offering outstanding dexterity with full resolved motion control, and the rugged reliability that is essential when operating in hazardous environments. It is particularly suited for use in nuclear decommissioning environments and confined spaces.

The second conference paper describes the design and construction of a modular, transportable, liquid effluent treatment plant for use in a UK nuclear power plant undergoing decommissioning. In decommissioning, treatment plants are often required infrequently and for relatively short periods of time and require a degree of flexibility in terms of input specifications and operational use constraints.. Therefore a modular solution delivers multiple advantages compared to a conventional fixed on site construction solution. The design, build and testing of the plant was undertaken at JFN's Malton facility and this single factory environment gives rapid progression to delivery and commissioning, engendering ownership and commitment from all

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stakeholders. The factory acceptance tests prior to delivery to site reduce project durations, particularly in the on-site and final commissioning phases. JFN has many years experience in designing and constructing a wide variety of modular plant for both the nuclear and non-nuclear industry, including site change rooms, decontamination suites and temporary ventilation systems.



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Notes to editors:

James Fisher Nuclear is an established supplier of specialist engineering, manufacturing and technical services for applications within challenging environments or with high integrity requirements.

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About Waste Management Symposia:

The Waste Management Symposia (WMS) international conference for the management of radioactive waste and related topics provides the premier open forum for discussing and seeking safe, environmentally responsible, technically sound and cost effective solutions to the management and disposition of radioactive wastes and the decommissioning of nuclear facilities to enhance the transparency and credibility of the global radioactive waste industry.

For more information see: <http://www.wmsym.org/>