HYDRAULIC MANIPULATOR ARM SOLUTION TO **ENABLE SAFE NUCLEAR DECOMISSIONING**

When James Fisher Nuclear required a system to control the manipulator arm they had developed for nuclear decommissioning work, Moog Applications Engineers were engaged to deliver the required product performance and appropriate Moog control system.

MARKET







OTHER APPLICATIONS





CAPABILITY













THE CHALLENGE

ModuMan had been designed by JFN around conventional hydraulic actuators. To ensure maximum maintainability, vital control elements needed to be located outside the operating cell. The 6-axis manipulator arm needed to be able to grasp and move materials weighing up to 100 kg, with a reach of 2.3 m through a 270 mm diameter access port in a radioactive environment.

THE SOLUTION

Moog delivered a control system comprising Moog servo controllers, servo drives and motion control software, as well as modelling and simulation of the product design.



THE RESULT

- of ±130°, shoulder pitch ±90°, elbow pitch of ±130°, wrist rotate ±130°, wrist pitch ±130°, continuous tool rotate and end effector grip width of 0-150 mm (0-5.9 ln).
- applications engineers delivering a solution for an extreme environment.

Contact us today to find out more about Moog precision motion control on 01684 858000







Moog Industrial



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