



## Centre for manufacturing excellence: custom built facility for manufacturing neutron flux detectors

### Key features

- Gamma test cell
- Neutron test cell
- X-ray inspection
- Automated welding
- Outgassing furnace
- ISO 7 clean room

### Overview

Curtiss-Wright owns and operates a world-leading centre of manufacturing excellence supporting its ability to design, manufacture, test and support neutron flux detectors (NFD) from its principle site in the United Kingdom.

Curtiss-Wright is the UK authority in the design, manufacture, testing and service of NFDs for Britain's nuclear power generation fleet. Its centre of manufacturing excellence strengthens the company's ability to support its existing NFD product range and installations, while simultaneously enabling world-leading innovation in the development of future designs.

We are able to offer our customers access to these one of a kind production and test facilities, as well as provide expert technical support and specialist advice.

All work can be tailored to meet specific requirements, providing a low risk, commercially sound and cost-effective solution for manufacturing existing, new and future designs of NFDs.

# Facility capabilities

## Neutron generator

- $F10^7$  thermal flux
- 1% flux stability tolerance
- Dual 100mm circular test cavity

## X-ray

- Weld inspection
- Electronic component inspection - 30mm metal penetration

## Gamma cell

- Multiple source holder
- XY remote controlled test bed - 2.5m x 2.5 test room

## Heat

- Baking capability of 1200° Celsius
- Profiling temperature change
- 1000° Celsius vacuum outgassing furnace

## Precision welding

- Automated TIG welding
- RF vacuum brazing
- Resistive welding

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## About Curtiss-Wright

Curtiss-Wright Round Rock and Wimborne have worked with nuclear and industrial customers for over 60 years. We support customers across the world from facilities located in the US and UK. Our solutions are embedded in strategic national infrastructure and our people are active partners in customer programs that are focused on delivering advanced future nuclear and industrial capabilities.

Curtiss-Wright Corporation (NYSE: CW) is a global integrated business that provides highly engineered products, solutions and services mainly to Aerospace & Defense markets, as well as critical technologies in demanding commercial power, process and industrial markets. We leverage a workforce of approximately 8,600 highly skilled employees who develop, design and build what we believe are the best engineered solutions to the markets we serve. Building on the heritage of Glenn Curtiss and the Wright brothers, Curtiss-Wright has a long tradition of providing innovative solutions through trusted customer relationships.