

Case Study

Trawsfynydd Nuclear Power Station



Overview

Trawsfynydd Nuclear Power Station is a former Magnox Nuclear Power Station in Snowdonia National Park, Gwynedd, Wales. The only nuclear power station in the UK to be built inland, with cooling water that was taken from the Llyn Trawsfynydd reservoir, which also supplies the hydro-electric Maentwrog Power Station. It was closed in 1991. Its ongoing decommissioning by Nuclear Restoration Services was expected to take almost 100 years.

Challenges

- All bolts were to be checked and tightened to hand-tight plus half a turn.
- Ensuring all bolts are checked and none are missed, given the size and all the steelwork involved.
- Full transparency for the contractor and client to ensure all 12,000 bolts had been checked.

Solution

To meet the project's strict safety and compliance requirements, the site inspection and test team utilised [Hydrajaws Verify Torque equipment](#). This ensured a consistent and fully traceable process:

- Every bolt on site was checked and logged electronically.
- Torque values were accurately measured and recorded in real time.
- Contractors and clients were provided with full transparency, demonstrating that all 12,000 bolts had been tested and tightened to specification.
- NRS gained complete assurance that all work was carried out in line with requirements, backed by verifiable digital records.

If you have a technical issue with your torque testing, please get in touch and our team will help you find the right solution.

Case Study

Trwysfynydd Nuclear Power Station

Testimonial

Denholm Industrial Services, working with Hydrajaws has successfully completed an 11-week project at Trwysfynydd Nuclear Power Station, working for Mitie on behalf of Nuclear Restoration Services (NRS) and the Nuclear Decommissioning Authority (NDA).

The project, part of ongoing decommissioning efforts, involved inspecting 12,000 bolts across the reactor's temporary steel roof structure ahead of demolition work scheduled for 2026. Initial checks revealed loose connections, prompting a full inspection of bolts, many located 6m to over 25m high. Access was made using a combination of mobile elevated platforms and industrial rope access.

Denholm Industrial Services developed a system to log torque data using the Hydrajaws new Verify Digital Torque meters. This allowed us to accurately and quickly record the connections as found, then tighten any loose connections up to the required torque. Using the digital reporting system, this quickly allowed DIS to compile and tabulate the entire findings for our client, integrating into our overall project reporting software.

The project was completed safely, on time, and on budget. Both NRS and Mitie have been really pleased with the outcome, and a huge thanks go to the site team for their hard work.

Gallery



An engineer using the Hydrajaws Verify app to record test data straight to the cloud.