

Spirit Energy

European Gas Turbine Decommissioning – North Morecambe Terminal



DURATION

12 months

SCOPE OVERVIEW

PD&MS were approached by Spirit Energy to undertake the Engineering Down and Cleaning (EDC) of the European Gas Turbines EGT Z-8430A & Z-8430B units previously used to power North Morecambe Terminal, isolating and air gapping the units and bringing them to a suitable and safe condition in preparation for the units being handed to a demolition contractor for their complete removal.

KEY ACHIEVEMENTS

- Successful isolation, separation and removal from live plant within a working Gas Terminal.
- One Team approach– Spirit Energy / PD&MS / Thomsons of Prudhoe
- Project delivered on time and within budget
- 100% Safety Record, Incident free project
- 86% recycling rate achieved (large amount of concrete/gravel to dispose of)

SCOPE

The EGT Decommissioning Project encompassed all phases from front-end engineering and detailed design through to procurement, construction, demolition, and the removal of the European Gas Turbines (EGT) units Z-8430A and Z-8430B. This work was undertaken to support Spirit Energy's safety culture and to eliminate ongoing maintenance requirements associated with the redundant units. For process steady-state assurance, all production-risk jobs aligned with Gas Terminal TAR plan.

The scope of work successfully delivered included:

- Engineering Down & Cleaning activities
- Air-gapping of utility pipework systems
- Identification and Abandonment of redundant cables
- Complete software modifications:
 - Emergency Shut Down (ESD)
 - Fire & Gas (F&G)
 - Distributed Control System (DCS)
- Coordination of handover procedures from Spirit Operations to the Demolition Contractor, in full compliance with CDM (Construction Design and Management) regulations.
- Complete demolition of the EGT units down to slab level, with the site finished in accordance with client specifications.

The successful delivery of the scope has enabled PD&MS to continue to support Spirit Energy with the decommissioning of larger plant within North Morecambe Terminal.



“PD&MS managed the engineering, disconnect and demolition of redundant gas turbines at Barrow Terminals, the scope was completed on time, on budget and incident free. Spirit Energy and PD&MS, together with other key project partners, worked collaboratively and developed a project culture that laid the foundation for flawless project execution.”

Steve Grant, Spirit Energy