



# High Explosive Testing

With qualified explosives engineers, GL Noble Denton's Spadeadam test site has the facilities and expertise to carry out trials involving the use of high explosives for a wide variety of purposes. The site has a capability to carry out tests with a net explosive quantity (NEQ) of up to 400kg TNT equivalent.

A complete service can be offered including all civil and mechanical works required to build or support structures under test.

Instrumentation includes:

- Overpressure measurement in the free field using transducers
- Received loading using transducers mounted in structures
- Response of structures using strain gauges, displacement transducers or accelerometers
- High speed cine or video photography

Typical explosive tests include:

- Use of shaped charges to cut through steel (eg. to initiate catastrophic failures on pressurised pipes/vessels)
- Testing of blast resistant materials to contact charges or at set distances (including 'Range Test' of windows, doors and shutters to draft European Standard)
- Novel explosive devices or techniques or applications

