

## Surge Analysis

This is a list of some projects in the surge analysis sector for which Spectrum has provided acoustic consultant or noise consultancy services.

Client	Project	Engineering Contractor
Brunner Mond	Demineralised water line, Winnington, UK	Brunner Mond (UK)
Conoco/Phillips	LNG ship to ship hose connection	Armstrong Technology Associates
ConocoPhillips	Seal Sands Refinery	ABB Engineering Services
E.ON Gas Storage	Salt cavity solution mining surge analysis, Holford, UK	Jacobs Engineering
Huntsman Petrochemicals	Aniline Linkline, Wilton, UK	ABB Engineering Services
Huntsman Petrochemicals	LPG Linklines network surge analysis, Teesside UK	Huntsman Petrochemicals UK
Huntsman Petrochemicals	Butane Linklines, Teesside, UK	Huntsman Petrochemicals UK
Huntsman Polyurethanes	Polyurethanes Effluent Line, Wilton, UK	PMM Consulting
Ineos Chlor	Salt cavity solution mining surge analysis, Holford, UK	Ineos Chlor
Ineos Enterprises	River water supply pumps, Winnington, UK	O'Hare Engineering
Ineos Oligomers	Feluy, Belgium	Jacobs Engineering
Ineos Vinyls	Ship to Shore Unloading, Barry, UK	Ineos Vinyls
Invista	Wilton, Teesside, UK	
Invista Textiles	ADN Linkline, Teesside, UK	Invista Textiles UK
Lucite	Chemical Linklines, Billingham, UK	Lucite
Lucite International	Acetone supply network, Billingham, UK	Lucite International
Lucite International	Billingham Teesside UK	
Methanex	Methanol Linkline, Teesside, UK	Methanex UK
Octel	Sand filter preliminary surge analysis	AMEC
Oikos Storage	Canvey Island, UK	Simon Storage

Client	Project	Engineering Contractor
Saudi Basic Industries Corporation (SABIC)	Petrinex, North Tees, UK	-
Saudi Basic Industries Corporation (SABIC)	Teesport, UK, Butenes line	-
Saudi Basic Industries Corporation (SABIC)	Wilton, UK, road tanker loading	-
Sembcorp Utilities	ACH Linkline, Teesside, UK	Sembcorp Utilities Teesside
Sembcorp Utilities	HP steam header surge analysis, GT Project, Wilton, UK	Sembcorp Utilities Teesside
Severn Trent Services	High rise water supply network, Nottingham, UK	Severn Trent Services
Total	Firewater System, Kharir Refinery, Yemen	ENPPI
Vopak	Diesel tanker loading system, Ipswich, UK	Vopak
Yemen LNG Company	LNG Loading System Surge Analysis Yemen LNG FEED project	Technip
Yemen LNG Company	Cooling Water System Surge Analysis Yemen LNG FEED project	Technip