

E C F

SPECIAL ALLOYS

Welding Fabrications

We specialise in the welding fabrication of exotic materials



www.ecfspecialalloys.co.uk



“20 years experience catering for offshore petrochemical projects.”

Peter Elliot - Director of ECF Special Alloys

What We Do

ECF Special Alloys are an ISO 9001, ISO 3834-2 and ASME U STAMP approved fabricator for the offshore oil and petrochemical process plant industries.

ECF was established in 1993 and was approved to BS EN ISO 9001 in 1995. In 2009 we achieved ASME U STAMP accreditation for the fabrication of Pressure Vessels to ASME VIII div 1. In June 2014 we achieved BS EN ISO 3834-2 As well as our fabrication service we offer a full subcontract design and drawing package. The company has an ongoing commitment to maintain and improve the high quality and standards required by our Off Shore and Petro-Chemical customers.

ECF Special Alloys specialises in the welding fabrication of exotic materials for example, Titanium, Stainless Steel, Duplex, Super Duplex, 6MO, Phosphor Bronze, Nickel, Inconel, Incoloy, Monel, Cupro Nickel, Hastelloy C276 and Hastelloy B2 & B3.

As a specialist fabricator, we are able to concentrate in this field and as a consequence, can give a fast response to enquiries, a total commitment to quality and can achieve reliable, on time deliveries.

Having qualified staff and skilled (coded) welders we can comply with all current manufacturing specification including PED PD 5500, ASME Section VIII Div 1 and Norsok standard.

Full co-operation is given to Inspecting Authorities and Insurance Company Surveyors for them to oversee manufacture, inspection and testing at all stages of production.

Our staff have experience in the fabrication techniques of all types of pipework, heat exchangers, filters, pressure vessels, thermocouples and refurbishment repair to process plants.



Covered Workshops

- 2 Units 75ft long x 50ft wide x 18ft high
- Total Production area 8000 square feet
- 1x 10 ton overhead crane
- 1x 5 ton overhead crane
- 1x Hyster 5 ton fork lift truck

Welding

- TIG
- MMA
- SYNERGIC MIG
- In house DPI inspection
- In house PMI inspection

Fabrication Services

- Pressing (up to 50mm thick)
- Rolling (up to 50mm thick)
- Profiling

Profiling Services

- Plasma
- Laser
- Water Jet

Machining Services

- Vertical boring
- Horizontal boring
- CNC turning and milling
- Slotting
- Drilling

NDT Services

- Xray / Gamma
- DPI MPI UT
- PMI

Finishing Services

- Rubber Lining
- Bead & shot blasting
- Painting
- Pickling
- Electro plating
- Metal polishing

Services

As a specialist fabricator **ECF Special Alloys** offers a range of process plant fabrication and services in all materials.

Range of Fabrications

- ✓ Pressure Vessels
- ✓ Shell & Tube Heat Exchangers
- ✓ Turbine Shaft Assembly
- ✓ Filters
- ✓ Flame Arresters
- ✓ Impellers
- ✓ Valves
- ✓ Magnetic and Ultrasonic
- ✓ Flowmeters
- ✓ Vessels
- ✓ Pipework and Fittings
- ✓ Columns
- ✓ Coils
- ✓ Dip Pipes
- ✓ Spargers
- ✓ Heating Pipes
- ✓ Hoppers

Materials

- ✓ Titanium
- ✓ Hastelloy
- ✓ Inconel
- ✓ Incoloy
- ✓ Zeron 100
- ✓ Super Duplex
- ✓ Duplex
- ✓ 6MO
- ✓ Cupro Nickel
- ✓ Monel
- ✓ Aluminum Bronze
- ✓ High Tensile Carbon Steel
- ✓ Low Temp Carbon Steel

Fabrication Standards

- ✓ ASME VIII Div 1
- ✓ PD 5500:2012

Welding Standards

- ✓ ASME IX (U Stamp Approved)
- ✓ BS EN ISO 9606-1: 2013
- ✓ NORSOK M601
- ✓ ISO 3834-2



Our staff have
experience in all
types of fabrication
techniques...



Projects



65110 SR Guard Filter

Client:
Amazon Filters LTD

Project:
FPSO Gimboa SRP Package

End Client:
VWS Westgarth LTD / Sonangol

Materials:
Super Duplex S32760

3 off super duplex vessels 1m diameter x 2.5m x 12mm thick. All internal filter bags fitted and assembled in-house. Filters boxed and shipped on time.



Sulphate Removal Unit

Client:
Plenty Process Filtration

Project:
Marlim Leste Field Development P53

End Client:
VWS Westgarth / Petrobras AS

Materials:
Super Duplex S32750 to S322760

3 x super duplex filters 1.5m diameter x 3m long x 25mm thick. ECF recoded all welders to comply with material changes and ASME code. Production did not stop and vessels were painted, packed, and delivered on time.



Vertical Gas Filters

Client:
SPX Plenty Process Filtration

Project:
Al Shaheen Field Development

End Client:
Maersk Oil Quataras / NPCC

Materials:
6 MO / Inconel 625 / LT50

16 Off Filters from 10" NB to 48" NB 35mm thick 6 MO bodies welded to LT50 flanges overlayed with Inconel 625 material. Even with delays on material the project was completed on time.



DN200 Flowmeter

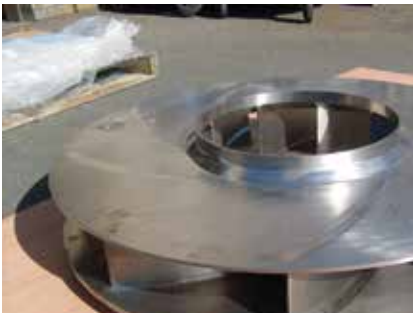
Client:

Siemens Flow Technologies

Materials:

304 L to C/S rubber lined with hyperlon

Special for Siemens 2m converted to suit 2.2m diameter pipeline. Full assembly including internal coils and electric wiring.



Titanium Impellor

Client:

Crystal Global Millennium inorganic Chemicals

Materials:

Titanium Gr2

1.2m dia impellor.



Prelude Skids

Client

Siemens Water Technologies

Project

Prelude Floating Liquefied Natural Gas (FLNG) Development

End Client

Shell Oil & Gas

Material

Titanium Gr2

Six Titanium Gr2 de-chlorination Skid units Piping sizes from 1"nb to 12"nb was installed on the Prelude FLNG facility. All six Skids delivered on schedule to Prelude Project.



Clair Ridge Tanks

Client:

SPX Flow Technology

Project

Clair Ridge Shetland Oil field development

End Client

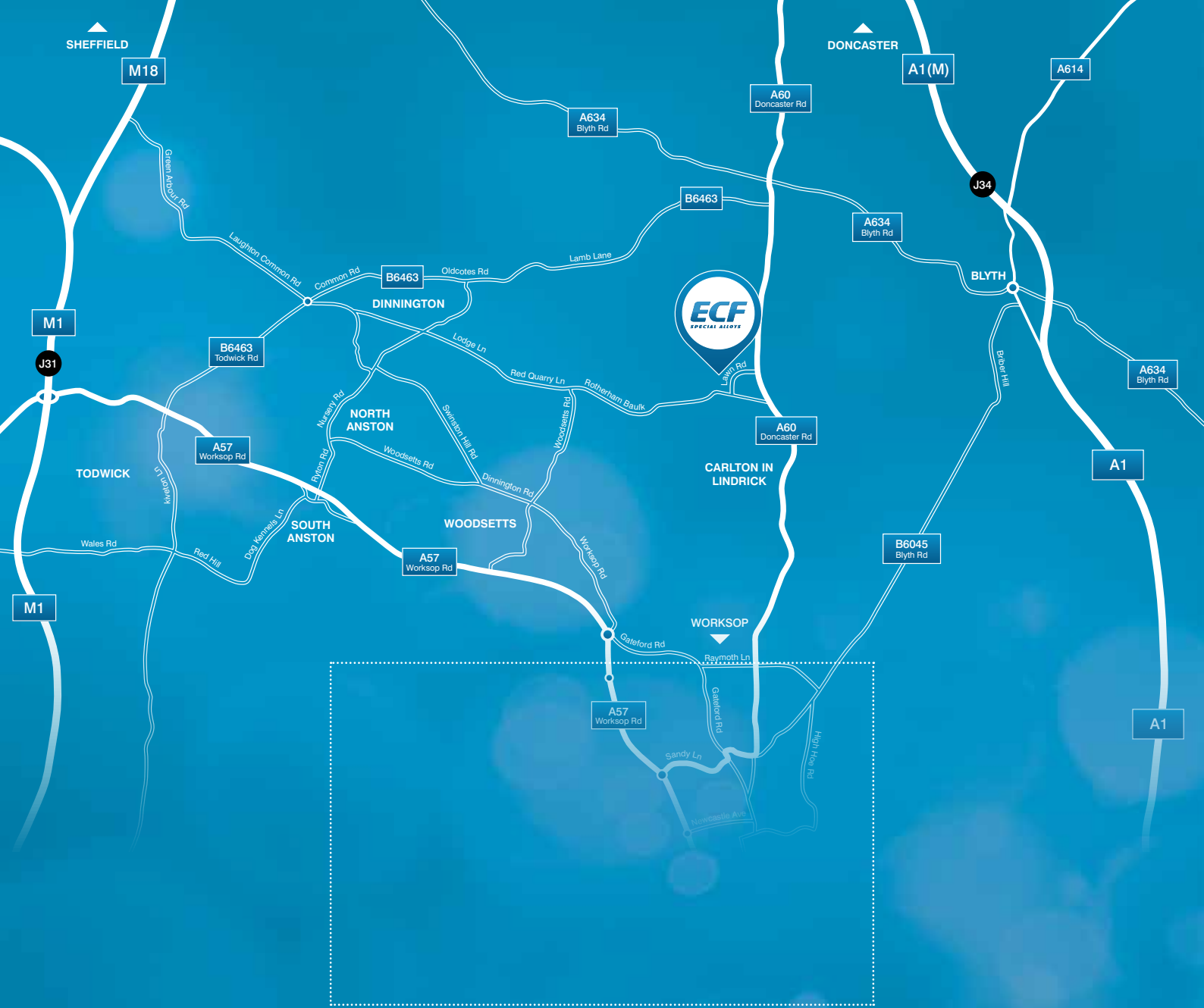
BP Oil & Gas

Material

Titanium Gr2

Three Titanium Gr2 Sea Water Blast proof storage tanks 4m long x 2.5m wide x 3m high. All units fabricated and delivered to Clair Ridge Project on time.





ECF

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