

APPENDIX 2.2  
(referred to in paragraphs 2.16, 2.17, 2.19 and 2.20)

## Steel foundries

**\*AITCHISON & BROUGH LTD**

16-17 Goddard Road, Astmoor Industrial Estate, Runcorn, Cheshire, WA7 1QF

*Number of employees:* 20

*Steels:* stainless to 200 kg

*Processes:* sand or ceramic core techniques

*In-house facilities:* 500 kg induction furnace, calibrated electrical treatment ovens, proof machined castings

*Specialities:* impeller specialists, high integrity castings

**APV BAKER LTD (a subsidiary of APV plc)**

Westfield Road, Peterborough, PE3 6TA

*Number of employees:*

*Steels:* carbon, low alloy, stainless and heat resisting to 6 tonnes

*Processes:*

*In-house facilities:*

*Specialities:*

**ARMALLOY LTD**

Central Avenue, Corngreaves Industrial Estate, Cradley Heath, West Midlands, B64 7BY

*Number of employees:* 45

*Steels:* carbon, low alloy, austenitic manganese, stainless, and heat resisting to 2.5 tonnes

*Processes:* chemical bonded sand, shell moulding

*In-house facilities:*

*Specialities:* nickel-chrome castings for high-temperature applications, petro-chemical products.

**ASI CASTINGS LTD (a subsidiary of Harrison Industries plc)**

Steel Foundry, Pottery Lane, Whittington Moor, Chesterfield, S41 9BN

*Number of employees:* 75

*Steels:* carbon, low alloy, stainless and heat resisting to 3 tonnes

*Processes:* chemical bonded sand, CO<sub>2</sub> silicate, moulding

*In-house facilities:* heat treatment, NDT (ultrasonic), machine shop, painting and coating, full material analysis

*Specialities:* integrity castings

**\*AUTO ALLOYS (FOUNDRIES) LTD**

Berristow Lane, Hilcote, Blackwell near Alfreton, Derbyshire, DE55 5JB

*Number of employees:*

*Steels:* heat resisting and high alloy

*Processes:* greensand, CO<sub>2</sub> silicate, moulding, compaction

*In-house facilities:*

*Specialities:* shotblast spares

**\*H BINGHAM & SONS LTD**

Wheatley Hall Road, Doncaster, DN2 4PF

*Number of employees:* 40

*Steels:* stainless steel to 1.5 tonnes

*Processes:* greensand, chemical bonded sand

*In-house facilities:* pattern shop, machine shop

*Specialities:*

**BIRMID QUALCAST INDUSTRIAL PRODUCTS LTD (a subsidiary of Blue Circle Industries plc)**

Dartmouth Road, Smethwick, Warley, W Midlands, B66 1BW

*Number of employees:*

*Steels:* carbon, low alloy and stainless to 3 tonnes

*Processes:* greensand, chemical bonded sand, diecasting, moulding

*In-house facilities:* pattern shop, machine shop, X-ray, heat treatment

*Specialities:* cylinder blocks, cylinder heads, MoD castings

**BLACKETT, HUTTON & CO LTD (a subsidiary of William Cook plc)**

Cleveland Steel Foundry, Guisborough, Cleveland, TS14 7DL

*Number of employees:* 180

*Steels:* stainless to 250 kg, carbon, low alloy to 4 tonnes

*Processes:* greensand, chemical bonded sand

*In-house facilities:* pattern shop, machine shop, heat treatment, mechanical testing

*Specialities:* medium to high integrity castings, jobbing castings

**GEORGE BLAIR LTD (a subsidiary of William Cook plc)**

Newcastle Alloy Steelworks, Pottery Lane, Newcastle Upon Tyne, NE1 3RB

*Number of employees:* 700

*Steels:* carbon, low alloy, austenitic manganese and stainless to 500 kg

*Processes:* chemical bonded sand, shell moulding

*In-house facilities:* pattern shop, tool room, heat treatment, NDT, machine shop, painting and coating

*Specialities:* castings for transport, railway and defence industries and container industries

**\*BLANTYRE CASTINGS LTD**

Block 9A, Unit B, South Avenue, Blantyre Industrial Estate, Glasgow, G72 0UZ

*Number of employees:* 20

*Steels:* carbon, low alloy, manganese, stainless and heat resisting to 500 kg

*Processes:* CO<sub>2</sub> silicate

*In-house facilities:* heat treatment

*Specialities:* normal delivery period 4 weeks

**\*BOLTON CRUCIBLE STEEL CO LTD**

Bella Street Foundry, Daubhill, Bolton, Lancs, BL3 4DX

*Number of employees:* 18

*Steels:* carbon, low alloy, stainless heat resisting (and Hi-chrome) to 200 kg

*Processes:* greensand, chemical bonded sand, CO<sub>2</sub> silicate

*In-house facilities:* heat treatment, NDT (ultrasonic)

*Specialities:*

**BOND'S FOUNDRY COMPANY LTD**

Tow Law, Bishop Auckland, Co Durham, DL13 4AB

*Number of employees:* 59

*Steels:* carbon, low alloy to 5 tonnes, stainless steel to 6 tonnes

*Processes:* chemical bonded sand

*In-house facilities:* pattern shop, machine shop

*Specialities:* marine, general engineering and gear blanks

**BRAFE ENGINEERING LTD**

Grundisburgh Road, Woodbridge, Suffolk, IP13 6HX

*Number of employees:* 60

*Steels:* stainless and nickel based alloys to 500 kg

*Processes:* induction melting, chemical bonded sand moulding

*In-house facilities:* pattern shop, heat treatment, NDT, ASME welding, machine shop, CNC lathes and machining centres

*Specialities:* corrosion and abrasion resisting cast and finished components for the pump, valve and chemical industries

**BRAINTREE FOUNDRIES LTD (a subsidiary of William Cook plc)**  
(formerly Paramount)

Chapel Hill, Braintree, Essex, CM7 6QY

*Number of employees:* 180

*Steels:* carbon, low alloy, austenitic manganese, stainless and heat resisting to 3 tonnes

*Processes:* green sand, shell, no bake

*In-house facilities:* NDT (X-ray)

*Specialities:* heat resisting

**BSA PRECISION CASTINGS LTD (a member of the BSA Foundries Group Ltd)**

Shawbank Road, Lakeside, Redditch, Worcestershire, B98 8YN

*Number of employees:* 150

*Steels:* carbon, low alloy, stainless and heat resisting to 35 kg

*Processes:* investment, polystyrene models

*In-house facilities:* tool room, heat treatment, NDT (radiographic and ultrasonic), machine shop

*Specialities:* pumps, valves, nuclear, aerospace, food and drink, mining industries

**CATTON & COMPANY LTD (a subsidiary of William Cook plc)**

Cross Green Approach, P O Box 28, Leeds, LS1 1JG

*Number of employees:* 710

*Steels:* carbon, low alloy, and stainless to 1 tonne

*Processes:* greensand, chemical bonded sand, shell moulding

*In-house facilities:* pattern shop, heat treatment, NDT (radiographic and ultrasonic),  
painting and coating

*Specialities:* repetition production

**\*THOMAS CLARKE & SONS (SHEFFIELD) LTD**

Bridge Foundry, 401 Attercliffe Road, Sheffield, S9 3QW

*Number of employees:* 42

*Steels:* stainless steel to 1 tonne; carbon, low alloy and heat resisting to 3 tonnes

*Processes:* chemical bonded sand, moulding

*In-house facilities:* pattern shop, tool room, painting and coating

*Specialities:* machine tool and marine engineering castings

**\*CLYDE SHAW LTD**

Craigneuk Works, PO Box 5, Motherwell, Strathclyde, ML1 2NR

*Number of employees:* 280

*Steels:* carbon, low alloy, manganese and stainless to 20 tonnes

*Processes:*

*In-house facilities:*

*Specialities:* steelmaker and high integrity steel founder, jobbing work

**WILLIAM COOK STEEL CASTINGS LTD (a subsidiary of William Cook plc)**

Parkway Avenue, Sheffield, S9 4WA

*Number of employees:* 480

*Steels:* carbon, low alloy, austenitic manganese to 3 tonnes

*Processes:* greensand, chemical bonded sand, shell moulding

*In-house facilities:* pattern shop, machine shop

*Specialities:* castings for mining engineering

**CRONITE CASTINGS LTD (a subsidiary of the Cronite Group plc)**

Blacknell Lane, Crewkerne, Somerset, TA18 7HE

*Number of employees:* 150

*Steels:* nickel chrome alloys to 2,000kg

*Processes:* shell, greensand, alpha set, machine moulding and horizontal spin

*In-house facilities:* NAMAS approved laboratory, total range of chemical analysis and  
mechanical testing, machining

*Specialities:* nickel chrome heat, corrosion and wear-resistant castings

CRONITE PRECISION CASTINGS LTD (a subsidiary of the Cronite Group plc)  
Blacknell Lane, Crewkerne, Somerset, TA18 7HE

*Number of employees:* 75

*Steels:* carbon, low alloy, austenitic, stainless and heat resisting to 50 kg

*Processes:* lost wax

*In-house facilities:* X-ray, heat treatment, machining, NAMAS approved laboratory

*Specialities:* integrity castings for engineering, defence and civil aerospace sectors

\*DARWINS ALLOY CASTINGS LTD (a subsidiary of LaBour Pump Co Ltd)

Sheffield Road, Tinsley, Sheffield, S9 1RL

*Number of employees:* 81

*Steels:* carbon, low alloy, stainless and heat resisting to 2.5 tonnes nickel-based

*Processes:* chemical bonded sand, shaw, ceramic, shell moulding

*In-house facilities:* pattern shop, heat treatment, NDT (ultrasonic), machine shop,  
chemical lab

*Specialities:* pump and valve parts, ceramic cored compressor impellers, stainless and  
heat-resistant alloy castings

THE DAVY ROLL COMPANY LTD (a subsidiary of Davy Corporation plc)

PO Box 123, Stevenson Road, Sheffield, S9 3XJ

*Number of employees:* 510

*Steels:* rolls in carbon, alloy and special alloys to 50 tonnes

*Processes:*

*In-house facilities:*

*Specialities:* the company produces cast rolls in both iron and steel for use in the steel  
non-ferrous, food and plastics industries

DEWRAMET LTD (a subsidiary of Dewramet Holdings Ltd)

York House, Mossland Road, Glasgow, G52 4UD

*Number of employees:* 50

*Steels:* carbon, low alloy, stainless and heat resisting to 500 kg

*Processes:* chemical bonded sand, lost wax precision investment

*In-house facilities:* pattern shop, heat treatment, full range of NDT facilities, machine shop

*Specialities:* supply of castings for the petrochemical, gas and oil, electric generating nuclear,  
and food industries; supply of DEW88MET

FIRTH BROWN CASTINGS LTD (a subsidiary of Johnson & Firth Brown plc)

Dawes Lane, Scunthorpe, DN16 1DN

*Number of employees:* 195

*Steels:* carbon, low alloy, stainless and heat resistant to 16 tonnes

*Processes:* greensand, chemical bonded sand, CO<sub>2</sub> silicate

*In-house facilities:* pattern shop, tool room, heat treatment, NDT (ultrasonic) machine shop,  
painting and coating

*Specialities:* wear resistant cast products

FIRTH VICKERS CENTRISPINNING LTD (a subsidiary of Triplex Lloyd plc)

Garter Street, PO Box 160, Sheffield, S4 7QY

*Number of employees:* 150

*Steels:* stainless and heat resisting to 5 tonnes nickel-rich

*Processes:* chemical bonded sand, centrifugal, moulding

*In-house facilities:* pattern shop, machine shop

*Specialities:* centrifugal castings from 100 to 300 mm outside diameter

\*FOLLSAINWEARPARTS FOUNDRY

Gilmorton Road, Lutterworth, Leicestershire, LE17 4HA

*Number of employees:* 50

*Steels:* stainless and heat resisting to 1 tonne

*Processes:* greensand, chemical bonded sand

*In-house facilities:* pattern shop, heat treatment, machine shop

*Specialities:*

**\*FURNISS & WHITE (FOUNDRIES) LTD**

Unit 17, North Anston Trading Estate, Abbey Way, North Anston, Sheffield, S31 7JL

*Number of employees:* 42

*Steels:* carbon, low alloy, stainless, nickel-based and heat resisting to 800 kg

*Processes:* CO<sub>2</sub> silicate

*In-house facilities:* pattern shop, heat treatment, painting and coating, spectrography

*Specialities:* castings for pump, valve, mining industries and general engineering

**GABRIEL & COMPANY LTD**

A.B.Row, Birmingham, B4 7QT

*Number of employees:* 101 (foundry, 40)

*Steels:* stainless steel, carbon, low alloy, monel to 90 kg

*Processes:* chemical bonded sand, shell moulding

*In-house facilities:* pattern shop, machine shop

*Specialities:* stainless steel castings

**GLENCAST LTD**

Kirkland Works, Leven, Fife, KY8 2LE

*Number of employees:* 130

*Steels:* carbon, low alloy, stainless and heat resisting to 3.5 tonnes

*Processes:* greensand, chemical bonded sand, Replicast ceramic shell

*In-house facilities:* pattern shop, tool room, heat treatment, NDT (ultrasonic and radiographic, dye penetrant and magnetic particle inspection), machine shop (extensive machining facilities including large CNC lathe), press test-25 000 psi

*Specialities:* mining machinery, railway castings, pressure castings, valves and precision cast components (using Replicast CS process)

**\*GOODWIN STEEL CASTINGS LTD (a subsidiary of Goodwin plc)**

Ivy House Foundry, Hanley, Stoke-on-Trent, Staffordshire, ST1 3NR

*Number of employees:* 140

*Steels:* carbon, low alloy and high temperature steels; austenitic, martensitic, Duplex and Super Duplex stainless steels; super nickel alloys (Monels, Inconels and Hastelloys); and heat-resisting steels. Weight range: 50 kg to 6 tonnes

*Processes:* chemical bonded sand, shell moulding

*In-house facilities:* heat treatment, NDT (MPI, dye penetrant and ultrasonic), test house (spectrographic and mechanical), pattern shop (a sister company, R Goodwin International Ltd, has machining and hydraulic and cryogenic test facilities which supplement those of the foundry)

*Specialities:* high integrity castings; BSI registered to BS 5750 Pt 2/ISO 9002, Lloyds and QUASCO approved

**HI-TEC INTEGRITY CASTINGS LTD (a subsidiary of William Cook plc)**

Penistone, Sheffield, S30 6BJ

*Number of employees:* 225

*Steels:* stainless to 5 tonnes; carbon, low alloy to 25 tonnes

*Processes:* chemical bonded sand, centrifugal (non-ferrous and stainless)

*In-house facilities:* pattern shop, heat treatment, NDT (ultrasonic and radiographic)

*Specialities:* leading specialist in field of heavy, high integrity steel castings and testing services, including high energy X-ray capability

**HOLBROOK PRECISION CASTINGS LTD (a subsidiary of William Cook plc)**

Holbrook Works, Halfway, Sheffield, S19 6GZ

*Number of employees:* 250

*Steels:* carbon, low alloy, stainless and heat resisting to 75 kg

*Processes:* CO<sub>2</sub> silicate, investment, shaw ceramic, replicast CS, shell

*In-house facilities:* pattern shop, heat treatment, NDT (radiographic) machine shop, painting and coating

*Specialities:* small size certified high integrity castings, especially in alloy steels

**HOPKINSONS LTD (a member of The Weir Group plc)**

Britannia Works, PO Box B27, Huddersfield, HD2 2UR

*Number of employees:* 800 (foundry, 150)

*Steels:* carbon, low alloy, stainless to 6 tonnes

*Processes:* greensand, chemical bonded sand, shell moulding, 'V' process

*In-house facilities:* NDT (X-ray) pattern shop, machine shop

*Specialities:* valves and pumps for oil and gas industry; general engineering castings

**\*HORNSBY & GOODWYN LTD**

Dawes lane, Scunthorpe, South Humberside, DN15 6UT

*Number of employees:* 35

*Steels:* cast iron, carbon and low alloy steels to 2 tonnes

*Processes:* silicate and resin bonded sand; loose and plated patterns used

*In-house facilities:* pattern shop, machine shop (turning, boring, planing), fabrication (constructional) shop, general fabrications

*Specialities:* explosive stores

**LLOYDS (BURTON) LTD (a subsidiary of William Cook plc)**

Wellington Road, Burton-on-Trent, Staffs DE14 2AH

*Number of employees:* 560

*Steels:* heat resisting to 500 kg; carbon, low alloy and manganese to 15 tonnes

*Processes:* chemical bonded sand, shell moulding

*In-house facilities:* pattern shop, heat treatment, NDT (radiographic and ultrasonic), crusher

*Specialities:* large, complex machinery castings, and petrochemical castings

**MATHER & PLATT MACHINERY (UK) LTD (a member of The Weir Group plc)**

Foundry Division, Park Works, Newton Heath, Manchester, M10 6BA

*Number of employees:* 126

*Steels:* carbon, low alloy, stainless and heat resisting to 5 tonnes

*Processes:* chemical bonded sand

*In-house facilities:* pattern shop and machine shop

*Specialities:* high quality castings

**\*MECH CAST LTD (a subsidiary of MS International plc)**

Carr Hill, Balby, Doncaster, South Yorkshire DN4 8DH

*Number of employees:* 96

*Steels:* carbon, low alloy and stainless to a maximum finished weight of 3 tonnes

*Processes:* medium frequency melting, shell and chemical bonded sand moulding

*In-house facilities:* heat treatment and pattern shop

*Specialities:* valves, pumps, scrap reprocessing, railways, mining, defence and transport

**\*METAKAL FOUNDRIES LTD**

Unit 7/8 Eagle Industrial Estate, Bagnall Street, Tipton, West Midlands

*Number of employees:* 18

*Steels:* carbon, low alloy and stainless to 500 kg

*Processes:* air hardening boxless moulds

*In-house facilities:* spectrometer, heat treatment

*Specialities:* general engineering

**NOEL VILLAGE (STEELFOUNDER) LTD**

Vulcan Foundry, High Street, Eckington, Sheffield, S31 9DN

*Number of employees:* 40

*Steels:* carbon, low alloy, austenitic manganese, stainless and heat resisting to 1.75 tonnes

*Processes:* high frequency induction melting, floor moulding, annealing

*In-house facilities:* spectrographic analysis

*Specialities:*

**NORTH BRITISH STEEL GROUP LTD (a subsidiary of Aurora plc, and of ANI)**

Balbardie Steel Works, Bathgate, West Lothian, EH48 2RB

*Number of employees:* 117

*Steels:* carbon, low alloy, stainless and heat resisting and manganese to 3,000 kg

*Processes:* chemical bonded sand

*In-house facilities:* pattern shop, heat treatment, NDT (radiographic and ultrasonic), machine shop

*Specialities:* crushing and mining, railway track, armaments, general engineering, valves, shredders, fragmentisers, and truck parts

**NORTON CAST PRODUCTS LTD**

Capital Steel Works, Tinsley Park Road, Sheffield, S9 5DL

*Number of employees:* 50

*Steels:* carbon, low alloy, austenitic manganese, stainless and heat resisting to 500 kg

*Processes:* sand and shell

*In-house facilities:* pattern shop, heat treatment, NDT, machine shop

*Specialities:* speciality jobbing; 40 different grades of steel used

**PARALLOY LTD**

Paralloy House, Nuffield Road, Billingham, TS23 4DA

*Number of employees:* 150

*Steels:* centrifugally cast tubes in stainless, high alloy and heat resisting 3.5 tonnes

*Processes:*

*In-house facilities:*

*Specialities:*

**PRECISION PRODUCTS (CUMBERLAND) LTD**

High Mill, Alston, Cumbria, CA9 3HT

*Number of employees:* 50

*Steels:* carbon, low alloy, stainless and heat resisting to 40 kg

*Processes:* shaw ceramic

*In-house facilities:* heat treatment, liquid penetrant, inspection

*Specialities:* ceramic cast pump impeller castings

**\*PROTOCAST LTD**

Taylor Industrial Estate, Risley, Warrington, WA3 6BL

*Number of employees:*

*Steels:* low alloy, stainless and high alloy to 60 kg

*Processes:*

*In-house facilities:*

*Specialities:*

**RIVER DON CASTINGS LTD (a subsidiary of Sheffield Forgemasters Ltd)**

River Don Foundry, PO Box 99, Brightside lane, Sheffield, S9 2RX

*Number of employees:* 222

*Steels:* carbon, alloy, stainless to 300 tonnes

*Processes:* chemical bonded sand

*In-house facilities:* pattern shop, heat treatment, NDT (ultrasonic), painting and coating

*Specialities:* lifting and structural casting for offshore oil and gas industry, mill- housings, press frames and slag pots. Marine, cement and crusher castings

**SHAKESPEARE FOUNDRY LTD**

Salop Street, Bolton, Lancashire, BL2 1DZ

*Number of employees:* 50

*Steels:* carbon, low alloy, stainless, heat resisting to 500 kg

*Processes:* chemical bonded sand

*In-house facilities:* painting and coating

*Specialities:* wear-resisting castings in iron and steel

**\*SHAW & McINNES LTD (a subsidiary of C I Group plc)**

Firhill Ironworks, 180 Firhill Road, Firhill, Glasgow, G20 7SF

*Number of employees:* 85

*Steels:* carbon, low alloy, austenitic manganese and stainless to 4 tonnes

*Processes:* CO<sub>2</sub> silicate, furan, electric melting

*In-house facilities:* pattern shop, machine shop

*Specialities:* alloys

**STERLING INTERNATIONAL TECHNOLOGY LTD (a subsidiary of Blue Circle Industries plc)**

Gipsy Lane, Nuneaton, CV11 4TX

*Number of employees:* 240

*Steels:* carbon, low alloy, heat resisting and stainless to 50 kg

*Processes:* investment and plaster moulding

*In-house facilities:* pattern shop, heat treatment, NDT (radiographic and ultrasonic) machine shop,

Ardrox flaw, magnetic detection, particle inspection

*Specialities:*

**\*JOHN SMITH & CO (DERBY) LTD**

Cotton Lane, Derby, DE2 8GJ

*Number of employees:* 50

*Steels:* carbon, low alloy stainless steel and heat resisting to 750 kg

*Processes:* greensand, chemical bonded sand, CO<sub>2</sub> silicate, moulding

*In-house facilities:* pattern shop, heat treatment, machine shop, chemical and tensile tests

*Specialities:* pressure tight castings for the valve and pump industries polished castings for food and pharmaceutical industries

**\*ALFRED STEEL LTD**

Meadowhall Road, Sheffield, S9 1HA

*Number of employees:* 30

*Steels:* wear resisting, stainless and heat resisting to 400 kg

*Processes:* greensand, chemical bonded sand

*In-house facilities:* pattern shop, heat treatment

*Specialities:* stainless and heat-resisting steel, wear-resisting steel

**R.B. TENNENT LTD (a subsidiary of Sheffield Forgemasters Ltd)**

Whifflet Foundry, Coatbridge, Lanarkshire, ML5 4RR

*Number of employees:* 300

*Steels:* rolls in carbon, low alloy, high alloy wear-resisting and special alloys to 75 tonnes

*Processes:* chemical bonded sand

*In-house facilities:* pattern and moulding shops, electric arc furnace, electric slag refining plant, heat treatment, tool room, machine shop

*Specialities:* cast steel rolls, electro-slag remelting and conventional steel ingots, and roll resurfacing by sub-merger arc welding

**TERRILL BROTHERS (FOUNDERS) LTD**

2 Guildford Road Industrial Estate, Hayle, Cornwall, TR27 4QZ

*Number of employees:* 50

*Steels:* carbon, low alloy, stainless and heat resisting 100 kg

*Processes:* greensand, chemical bonded sand, investment

*In-house facilities:* heat treatment, chemical and physical analysis, ultrasonic, dye penetrant and radiography

*Specialities:* alloy irons and steel

**\*TREFOIL STEEL CO LTD**

17 White Lee Road, Swinton, Mexborough, S64 8BH

*Number of employees:* 16

*Steels:* carbon, low alloy and manganese steels

*Processes:* sand casting

*In-house facilities:* shot blasting

*Specialities:*

**WARMAN INTERNATIONAL LTD**

Halifax Road, Todmorden, Lancashire, OL14 5RT

*Number of employees:* 350

*Steels:* carbon, alloy and stainless to 20 tonnes

*Processes:* chemical bonded sand, diecasting (HP and LP)

*In-house facilities:* pattern shop, machine shop

*Specialities:* abrasive handling centrifugal pumps

**WEARDALE STEEL (WOLSINGHAM) LTD (a subsidiary of Langham Industries Ltd)**

Wolsingham, Bishop Auckland, County Durham, DL13 3HX

*Number of employees:* 100

*Steels:* carbon, low alloy and austenitic manganese to 70 tonnes

*Processes:* chemical bonded sand

*In-house facilities:* pattern shop, machine shop

*Specialities:* ships hull construction

**WESTCROFT CASTINGS LTD (a subsidiary of Langley Holdings Ltd)**

Havelock Street, Great Horton, Bradford, BD7 4EX

*Number of employees:* 50

*Steels:* stainless, Duplex and Super Duplex stainless, and high nickel based alloys to 350 kg

*Processes:* loose pattern moulding in chemical bonded sand, machine moulding in greensand, shell moulding

*In-house facilities:* pattern making

*Specialities:* stainless and high alloy steel castings for the chemical processing industries, Duplex and Super Duplex stainless steel castings for sea water applications (including offshore oil production and undersea applications)

**\*WILLAN METALS LTD (a subsidiary of Aurora plc)**

Sheffield Works, Poplar Way, Catcliffe, Rotherham, S60 5RL

*Number of employees:* 150

*Steels:* carbon, low alloy, stainless and heat resisting to 1.25 tonnes

*Processes:* chemical bonded sand, CO<sub>2</sub> silicate, moulding, furan

*In-house facilities:* heat treatment, NDT (ultrasonic)

*Specialities:* stainless, acid and heat-resisting castings for pumps, valves and process plant also vacuum cast alloys and castings

**WILSONS FOUNDRY (a subsidiary of BTR plc)**

6 South Church Road, Bishop Auckland, County Durham, DL14 7LA

*Number of employees:* 150

*Steels:* carbon, low alloy, and stainless, from 5 kgs to 5.5 tonnes

*Processes:*

*In-house facilities:* pattern shop, heat treatment, NDT (radiographic and ultrasonic), and coating

*Specialities:* pressure retaining steel castings to quality assured standards

**WORTHINGTON SIMPSON LTD (a subsidiary of Dresser Holdings Ltd)**

Lowfield Works, PO Box 17, Newark, Notts NG24 3EN

*Number of employees:* 736

*Steels:* carbon, low alloy, stainless and heat resisting to 500 kg

*Processes:*

*In-house facilities:*

*Specialities:*

*Note:* We wrote to all of the above listed steel foundries, but not all replied with the information we requested.

\*Foundries which are not members of SCRATA.

Foundries which SCRATA believes are capable of producing medium weight, high integrity castings (see paragraph 2.19).

## Steel foundries: radiography facilities

*Note:* The above descriptions of foundries give some indication of their in-house abilities to conduct radiographic tests on castings. In summary, SCRATA told us that, in addition to its own facility, four steel foundries in the United Kingdom currently have the high energy X-ray units needed to test large high integrity castings:

CLYDE SHAW LTD	high energy X-ray	8.0 MeV
*HI-TEC INTEGRITY CASTINGS LTD	high energy X-ray	8.0 MeV
*BRAINTREE FOUNDRIES LTD	high energy X-ray	4.0 MeV
SCRATA	high energy X-ray	2.5 MeV
*ARMADALE (formerly of NBSG LTD)	high energy X-ray	2.0 MeV

Also, it told us that the following foundries have low energy X-ray units, typically 300 KeV, and/or gamma ray facilities (which are based on a cobalt 60 source capable of examining up to 8" thick sections, and/or iridium/cesium sources which are useful up to about 3" thick sections):

- \*BLACKETT, HUTTON & CO LTD
- \*GEORGE BLAIR LTD
- \*BRAINTREE FOUNDRIES LTD
- BSA FOUNDRIES LTD
- \*CATTON & COMPANY LTD
- CRONITE PRECISION CASTINGS LTD
- DEWRAMET LTD
- GLENCAST LTD
- \*HI-TEC INTEGRITY CASTINGS LTD
- \*HOLBROOK PRECISION CASTINGS LTD
- HOPKINSONS LTD
- \*LLOYDS (BURTON) LTD
- MATHER & PLATT MACHINERY (UK) LTD
- NORTH BRITISH STEEL GROUP LTD
- RIVER DON CASTINGS LTD
- WILSONS FOUNDRY LTD
- WORTHINGTON SIMPSON LTD

SCRATA noted that there were also numerous commercial non-destructive testings (NDT) companies throughout the United Kingdom with facilities based on cobalt/iridium isotopes, to which those steelfounders which were without in-house radiography facilities could subcontract this work.

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\*Owned by William Cook plc.