


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

|   |   |  |
|---|---|--|
|  <p>Accredited to<br/>ISO/IEC 17025:2005</p> | <b>NDT Services Ltd</b><br><br><b>Issue No: 044    Issue date: 22 January 2019</b>                                    |  |
|   | <b>Unit 10A</b><br><b>Victory Park</b><br><b>Victory Road</b><br><b>Derby</b><br><b>Derbyshire</b><br><b>DE24 8ZF</b> | <b>Contact: Mr Andy Harrison</b><br><b>Tel: +44 (0)1332 275700</b><br><b>E-Mail: andy.harrison@intertek.com</b><br><b>Website: www.ndtservices.co.uk</b> |
| <b>Testing performed by the Organisation at the locations specified below</b>   |   |  |

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

| Location details  | Activity   | Location code |
|---|--|---------------|
| <b>Location Address</b><br>Unit 10A<br>Victory Park<br>Victory Road<br>Derby<br>Derbyshire<br>DE24 8ZF<br><br><b>Local contact</b><br>Mr Andy Harrison<br>Tel: +44 (0)1332 275700<br>Fax: N/A<br>E-Mail: andy.harrison@intertek.com | Metals & Weldments - Coatings<br>Metals & Weldments - Corrosion tests<br>Metals & Weldments - Mechanical tests<br>Metals & Weldments - Metallurgical tests<br>Metals & Weldments - NDT tests       | A             |
| <b>Location Address</b><br>Unit No 5<br>Victory House<br>99 Victory Road<br>Derby<br>DE24 8EL<br><br><b>Local contact</b><br>Mr Ian Copestake<br>Tel: +44 (0)1332 275820<br>Fax: N/A<br>E-Mail: ian.copestake@ndtservices.co.uk     | Metals & Weldments - Chemical tests<br>Metals & Weldments - Corrosion tests<br>Metals & Weldments - Mechanical tests<br>Metals & Weldments - Metallurgical tests<br>Metals & Weldments - NDT tests | B             |

#### Site activities performed away from the locations listed above:

| Location details  | Activity                       | Location code |
|---|--------------------------------|---------------|
| <b>Location Address</b><br>Any suitable customer premises<br><br><b>Local contact</b><br>Mr. Andy Harrison<br>Tel: +44 (0)1332 275700<br>Fax: N/A<br>E-Mail: andy.harrison@intertek.com | Metals & Weldments - NDT tests | C             |



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DETAIL OF ACCREDITATION

| Materials/Products tested                   | Type of test/Properties measured/Range of measurement  | Standard specifications/ Equipment/Techniques used   | Location Code |
|---|--|--|---------------|
| <b>METALS, ALLOYS and METAL PRODUCTS</b>    | <u>Chemical Tests</u>  |  |               |
| Cast Iron                                   | Elemental Analysis<br>C, Si, Mn, P, S, Cr, Mo, Ni, Al, Cu, B, Co, Pb, Ti, V, Nb, W, Sn, Mg, As | Documented In-House Methods MCP 052 and MCP 056 using spark source optical emission spectrometry | B             |
| Low and High alloy steels                   | Elemental Analysis<br>C, Si, Mn, P, S, Cr, Mo, Ni, Al, Cu, B, Co, Pb, Ti, V, Nb, W, Sn         | Documented In-House Methods MCP 052 and MCP 056 using spark source optical emission spectrometry | B             |
| Stainless Steel                             | Elemental Analysis<br>C, Si, Mn, P, S, Cr, Mo, Ni, Al, Cu, B, Co, Pb, Ti, V, Nb, W, Sn         | Documented In-House Methods MCP 052 and MCP 056 using spark source optical emission spectrometry | B             |
| Aluminium and Aluminium alloys              | Elemental Analysis<br>Cu, Si, Mn, Cr, Ni, Al, Pb, Mg, Co, Fe, Sb, Sn, Ti, Zn, Zr               | Documented In-House Methods MCP 052 and MCP 056 using spark source optical emission spectrometry | B             |
| Copper and Copper alloys                    | Elemental Analysis<br>Si, Mn, P, S, Ni, Al, As, Cu, Pb, Sn, Zn, Fe                             | Documented In-House Methods MCP 052 and MCP 056 using spark source optical emission spectrometry | B             |
|   | <u>Corrosion Tests</u>   |  |               |
| Austenitic stainless steels,                | Intergranular attack   | ASTM G28-02(15) Practices A & B  | B             |
| Wrought, nickel and chromium bearing alloys | Intergranular attack   | BS EN ISO 3651-2:1998 Method A, B & C<br>ASTM A262-15 Practices A, B, C, E & F                   | B             |
| Stainless steels                            | Pitting resistance   | ASTM G48 -11 Method A  | B             |
| Metal products, forging and castings        | <u>Physical tests</u>  |  |               |
|   | Surface roughness  | BS 1134-1:2010 Documented In-House Method MCP 049  | B             |



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|--|--|--|---------------|
| METALS, ALLOYS and METAL PRODUCTS (cont'd) | <u>Mechanical Tests</u>  |  |               |
|  | Bend   | BS EN ISO 7438:2016<br>ASTM E290 -14   | B             |
|  | <u>Hardness:</u><br>Portable (comparative)   | Documented In-House Method<br>MCP 09 using Equotip equipment   | B             |
|  | Vickers<br>HV30 and HV10<br>HV0.2 and HV0.5  | BS EN ISO 6507-1:2005  | B             |
|  | Brinell (HBW 10/3000)  | BS EN ISO 6506-1:2014<br>ASTM E10-17   | B             |
|  | Rockwell (B and C Scales)  | BS EN ISO 6508-1:2016  | B             |
|  | <u>Tensile:</u><br>Tensile (ambient temperature)<br>(Force from 0.4kN to 1000kN)     | BS EN ISO 6892-1:2016<br>BS EN 2002-1:2005<br>BS 4A4:Part 1:Section 1:1966<br>(Withdrawn)<br>ASTM A370-17<br>ASTM E8/E8M-16a | B             |
|  | Tensile (elevated temperature)<br>(Force from 6kN to 50kN)<br>(T = ambient to 600°C) | BS EN ISO 6892-2:2011<br>ASTM E21-09   | B             |
|  | <u>Impact:</u><br>Charpy (V-notch)<br>(Temperatures -196°C and -<br>80°C to ambient) | BS EN ISO 148-1:2010<br>ASTM E23-16b   | B             |
|  | Izod   | BS 131-1:1961  | B             |
| Lateral expansion and percent shear        | BS EN ISO 148-1:2010<br>ASTM E23-16b   | B  |               |



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|--|---|--|---------------|
| METALS, ALLOYS and METAL PRODUCTS (cont'd)                               | <u>Metallurgical Tests</u>  |  |               |
|  | Volume fraction   | ASTM E562-11   | B             |
| LIGHT and DENSE METALS and ALLOYS including casting, forging & weldments | Case depth  | BS 6286:1982(2005)<br>BS 6479:1984(1990) (withdrawn)<br>BS EN 10328:2005<br>BS EN ISO 2639:2002  | B             |
|  | Assessment of microstructures   | Documented in-House Method<br>MCP 80   | B             |
|  | <u>Non Destructive Testing</u>  |  |               |
|  | <u>Eddy Current Flaw Detection:</u><br>Manual scanning equipment<br>Automatic scanning equipment          | BS EN 1971-1:2011<br>BS EN 1971-2:2011<br>BS EN ISO 10893-1:2011<br>BS EN ISO 15549:2010<br>ASME V:2017  | A             |
|  | <u>Liquid Penetrant:</u><br>Colour contrast - manual application<br>Fluorescent - immersion line (Site A) | BS M 39:1972<br>BS EN ISO 3452-1:2013<br>BS EN ISO 3452-2:2013<br>BS EN ISO 3452-3:2013<br>BS EN ISO 3452-4:1999<br>BS EN ISO 3452-5:2008<br>BS EN ISO 3452-6:2008<br>ASTM E165-12<br>ASTM E1417-16<br>ASME V:2017<br>RRP 58003:Issue G<br>AWS D17.1/D17.1M:2017 | A, B          |
|  | <u>Radiography:</u><br>X-Ray<br>(15 keV to 320 keV - Site A)<br>(50 keV to 225 keV - Site C)              | BS EN ISO 5579:2013<br>BS EN ISO 17636-1:2013<br>BS EN ISO 17636-2:2013<br>ASME V:2017<br>RRP 58006:Issue E<br>BS ISO 24394:2008+A1:2012<br>AWS D17.1/D17.1M:2017  | A, C          |



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|---|---|---|---------------|
| LIGHT and DENSE METALS and ALLOYS including casting, forging & weldments (cont'd)                                 | <u>Non Destructive Testing</u><br>(cont'd)  |   |               |
|   | Gamma-Ray<br>Ir 192 up to 740 GBq (20 Ci)<br>Se 75 up to 80 curies<br>Ytb 169 up to 10 curies | BS M 34:1970(1984)<br>BS EN ISO 5579:2013<br>BS EN ISO 17636-1:2013<br>BS EN ISO 17636-2:2013<br>ASTM E94-17<br>ASTM E1742-12<br>ASME V:2017<br>AMS 2175 Rev A<br>DIN 54111:Part 1:1988<br>MIL-STD453C(1984) (Superseded)<br>MIL-STD 2175(1984) (Superseded)<br>RRP 58006:Issue E<br>BS ISO 24394:2008+A1:2012<br>AWS D17.1/D17.1M:2017 | A, C          |
|   | <u>Ultrasonic Flaw Detection:</u>   |   |               |
|   | Automated examination method  | BS EN 10160:1999<br>BS EN ISO 17640:2010<br>AMS-STD-2154 Rev A  | A             |
|   | Immersion method  | BS M 36:1970(1984)<br>AMS-STD-2154 Rev A<br>RRP 58001:Issue B   | A             |
|   | Manual contact method   | BS EN 10160:1999<br>BS EN 10228-3:2016<br>BS EN ISO 17640:2010<br>ASME V:2017<br>AMS-STD-2154 Rev A<br>RRP 58002:Issue B  | A, C          |
| LIGHT and DENSE METALS and ALLOYS including castings, forgings and weldments, aerospace structures and components | <u>Eddy Current Flaw Detection</u>  | BS EN ISO 10893-1:2011<br>BS EN ISO 10893-2:2011<br>BS EN ISO 15549:2010<br>ASME V:2017<br>Aircraft manufacturers recommended in-service inspection techniques  | C             |



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| LIGHT and DENSE METALS and ALLOYS including castings, forgings and weldments, aerospace structures and components (cont'd) | <u>Liquid Penetrant:</u><br>Colour contrast - manual application<br>Fluorescent - manual application  | BS M 39:1972<br>BS EN ISO 3452-1:2013<br>ASTM E165-12<br>ASTM E1417-16<br>ASME V:2017<br>Aircraft manufacturers recommended in-service inspection techniques | C             |
| FEROMAGNETIC METALS  | <u>Magnetic Particle:</u><br>Black ink - universal and portable kit<br>Fluorescent ink - universal and portable kit<br>(AC and DC up to 3000 A) | BS 6072:1981(1986)<br>BS EN 17638:2016<br>BS EN ISO 9934-1:2016<br>ASTM E1444-/E1444M-16e1<br>ASME V:2017<br>MIL-STD 1949(1985) (Superseded)                 | A, C          |
|  |   | RRP 58004:Issue F<br>BS ISO 24394:2008+A1:2012<br>AWS D17.1/D17.1M:2017  | A             |
|  |   | Aircraft manufacturers recommended in-service inspection techniques  | C             |
|  | <u>Magnetic particle:</u><br>Current flow method (up to 800A - AC & DC)<br>Magnetic flow method<br>Magnetic yoke method                         | BS 6072:1981(1986)<br>BS EN 10228-1:2016<br>BS EN ISO 9934-1:2016<br>BS EN 17638:2016<br>ASTM E709-15<br>ASME V:2017   | B             |
| <u>Magnetic particle:</u><br>Magnetic flow method<br>Magnetic yoke method<br>Portable equipment                            | BS 6072:1981 (1986)<br>BS EN 10228-1:2016<br>BS EN ISO 9934-1:2016<br>BS EN 17638:2016<br>ASTM E709-15<br>ASME V:2017                           | C  |               |



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| METALS, ALLOYS and METAL PRODUCTS<br><br>WELDMENTS | <u>Mechanical, Metallurgical and Non Destructive Tests</u><br><br>Tests designated in specified welding codes as detailed below:<br><br>Bend, Fracture, Hardness, Tensile, Liquid Penetrant, Magnetic Particle, Macro- and Micro-examination, Radiography, Ultrasonic and Visual Examination in accordance with specific welding codes | BS 1140:1993<br>BS 4872:Part 1:1982(1999)<br>BS 4872:Part 2:1976(1999)<br>BS EN 287-1:2011<br>BS EN ISO 9606-1:2017<br>BS EN ISO 15609-1:2004<br>BS EN ISO 15613:2004<br>BS EN ISO 15614-1:2017<br>BS EN ISO 15614-2:2005<br>BS EN ISO 15614-3:2008<br>BS EN ISO 15614-5:2004<br>BS EN ISO 15614-6:2006<br>BS EN ISO 15614-7:2016<br>BS EN ISO 15614-8:2016<br>BS EN ISO 9017:2018<br>BS EN ISO17639:2013<br>BS EN ISO 4136:2012<br>BS EN ISO 5173+A1:2011<br>BS EN ISO 5178:2011<br>BS EN ISO 5817:2014<br>BS EN ISO 9015-1:2011<br>BS EN ISO 9016:2012<br>BS EN ISO 9606-2:2004<br>BS EN ISO 17637:2016<br>BPVC ASME IX:2017<br>BCAR A8-10<br>RPS 912 Issue 18<br>PD 5500:2015+A2:2016<br>BS ISO 24394:2008+A1:2012<br>AWS D17.1/D17.1M:2017 | A, B*         |

\* NDT techniques not specific to any site - contact laboratory for further details.

END