Laboratory Accreditation Programmes

Schedule to

CERTIFICATE OF ACCREDITATION

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X-Ray Laboratories Limited **Client Number 146**

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Telephone **09 579-4972** **www.xraylabs.co.nz**

Authorised Representative
Mr Israel Hughes
Technical Manager

Programme
Mechanical Testing Laboratory

Accreditation Number 188 **Initial Accreditation Date** 11 October 1982

Conformance Standard
ISO/IEC 17025:2017
General requirements for the competence of testing and calibration laboratories

Laboratory Services Summary

4.75	Welder Qualification Tests
4.76	Metals and Metal Products
4.79	Metallographic Tests on Metals
4.81	Non Destructive Tests by Radiography
4.82	Non Destructive Tests by Ultrasonics
4.83	Non Destructive Tests by Visual Inspection
4.84	Non Destructive Tests by Dye Penetrant Methods
4.85	Non Destructive Tests by Magnetic Particle methods
4.87	Non Destructive Tests by Specialised Techniques

Key Technical Personnel

Mr Scott Burfoot	4.75, 4.76, 4.79, 4.82, 4.83, 4.84, 4.85
Mr Israel Hughes	4.75, 4.76, 4.79, 4.81, 4.82, 4.83, 4.84, 4.85, 4.87

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4.75 Welder Qualification Tests

Test in accordance with the standards such as:

API 1104
AS/NZS 1554 Part 1 to 7
AS 1665
ASME-9
AS 2205.2.1
AS 2205.3.1
AS 2205.4.1
AS 2205.4.2
AS/NZS 2980
BS EN ISO 9606.1

4.76 Metals and Metal Products

(a) Tension tests in accordance with the following standards in the load range 5 kN to 500 kN

AS 1391
ASTM E8/E8M
BS EN 10002.1
BS EN ISO 6892-1

(c) Bend tests (including transverse root and face, longitudinal and side) in accordance with the following standards:

AS 2205
ASME IX
BS EN ISO 15614-1
BS EN ISO 15614-2
ISO 5173

(e) Hardness tests in accordance with the following standards

Vickers hardness tests in the load range 5 kgf to 50 kgf in accordance with:

BS EN ISO 6507.1
AS 1817

(f) Impact tests in accordance with the following standards

Charpy impact tests in the load range between -50 °C and ambient

AS 1544.2
BS EN 10045.1

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BS EN ISO 148-1:2016

(g) Weld tests (tensile, hardness, bend, nick breaks and macro-examination) in accordance with the following standards

AS 2205
ASME IX
BS EN 15614-1
BS EN 15614-2
ISO 9017
ISO 17639

4.79 Metallographic Tests on Metals

(h) Tests on welds in accordance with the following standards

AS 1665
AS 2205
BS EN ISO 9606-2
ASME IX
EN 15614-1
EN 1321
ISO 17639
AS/NZS 1554

4.81 Non Destructive Tests by Radiography

(a) Radiographic examination of metals
(Aluminium, Iron, Stainless steel)

(i) Single wall or rolled products
- thickness measurements
- corrosion pitting

(ii) Welded joints
(iii) Castings
(iv) Forgings

X and gamma radiography of butt welded joints in accordance with:

ASME V Article 2
AS 2177- Part 1
BS EN 1435
ISO 17636-1

4.82 Non Destructive Tests by Ultrasonics

(a) Ultrasonic examination of metals

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X-Ray Laboratories Limited
Mechanical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 188

(Aluminium, Iron)

(i) Single wall or rolled product
- thickness measurements
- corrosion pitting

(ii) Welded joints

4.83 Non Destructive Tests by Visual Inspection

(a) Visual inspection of metals
(Aluminium, Iron)

(i) Flat or rolled product
(ii) Welded joints
(iii) Castings
(iv) Forgings

4.84 Non Destructive Tests by Dye Penetrant Methods

Penetrant Testing in accordance with standards:
(Aluminium, Copper, Iron, Nickel, Magnesium, Zinc, Stainless Steel)

(a) Visible dye

(i) Water washable
(ii) Solvent removable method

(b) Fluorescent dye

(i) Water washable
(ii) Solvent removable method

4.85 Non Destructive Tests by Magnetic Particle Methods

(a) Magnetic flow method
(Iron)

(i) Welded joints
(ii) Forgings
(iii) Castings

4.87 Non Destructive Tests by Specialised Techniques

(d) Encoded Phased Array (Thickness and weld tests)

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