SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

WTTI
1144 N. Graham Street
Allentown, PA 18109
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MECHANICAL

Valid To: March 31, 2027 Certificate Number: 3430.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following testing:

Test Method:	**Test Description:**
Tensile (≤400Klbs, Room Temperature)	ASTM E8/E8M, A370; API 1104; ASME Section IX; AWS B2.1/B2.1M, B4.0, D1.1/D1.1M, D1.2/D1.2M; AASHTO/AWS D1.5/D1.5M, D1.6/D1.6M, D1.9/D1.9M, D14.1/D14.1M, D15.1/D15.1M
Bend	ASTM E190, A370; API 1104; ASME Section IX; AWS B2.1/B2.1M, B4.0, D1.1/D1.1M, D1.2/D1.2M; AASHTO/AWS D1.5/D1.5M, D1.6/D1.6M, D1.9/D1.9M, D14.1/D14.1M, D14.5/D14.5M, D15.1/D15.1M, D17.1/D17.1M
Fillet Weld Break	ASME IX; AWS B4.0
Nick Break	API 1104; AWS B4.0
Macro-Etch	ASTM E340, E381; API 1104; ASME Section IX; AWS B2.1/B2.1M, D1.1/D1.1M, D1.2/D1.2M; AASHTO/AWS D1.5/D1.5M, D1.6/D1.6M, D1.9/D1.9M, D14.1/D14.1M, D14.5/D14.5M, D15.1/D15.1M, D17.1/D17.1M
Vickers Hardness Testing (HV 1000g, HV 5kg, HV 10kg)	ASTM E92
Brinell Hardness (3000 kg)	ASTM E10
Microhardness (HV 300g)	ASTM E384
Rockwell Hardness (HRA, HRB, HRC)	ASTM E18

Test Method:	**Test Description:**
Charpy Impact (< 590) ft-lbs; (175 to -452) °F	ASTM A370, E23; ASME IX; AWS B4.0; ASTM A923 Method B, ASTM A1084 Method B
Chemical Analysis (Steel, Stainless Steel, Nickel, & Copper Alloys) (Al, C, Co, Cr, Cu, Fe, Mg, Mn, Mo, N, Ni, P, Pb, S, Si, Sn, Ti, V, W, Zn)	ASTM A751, E351, E415, E826, E1086, E1251, E1999, E2209
Weld and Braze Evaluation and Qualification	AMS-STD-1595; API 1104; ASME IX; ASTM A488/A488M; AWS B2.1/B2.1M, B2.2/B2.2M, D1.1/D1.1M, D1.2/D1.2M, D1.3/D1.3M, D1.4/D1.4M; AASHTO/AWS D1.5/D1.5M, D1.6/D1.6M, D1.7/D1.7M, D1.8/D1.8M, D1.9/D1.9M, D9.1/D9.1M, D14.1/D14.1M, D14.3/D14.3M, D14.4/D14.4M, D14.6/D14.6M, D15.1/D15.1M, D17.1/D17.1M; BS EN287-1 (Canceled 7/2011), 287-2 (Canceled 12/2004), 288-3 (Canceled 6/2004), 288-4 (Canceled 4/2005); ISO 15614-1, 15614-2, 15614-6, 15614-7, 9606-1, 9606-2, 9606-4; MIL-STD-248D (Canceled 8/1997), 1595A (Canceled 6/1998), 2219 (Canceled 9/2009), 1261 (Canceled 7/2003); NACE MR0175/ISO15156-1, 15156-2, 15156-3; NAVSEA S9074-AQ-GIB-010 New York State Steel Construction Manual
Failure Analysis	Using the methods listed above in accordance with the ASM Handbook Volume 11
Corrosion Testing	ASTM G48 Method A, A262 Practice A, A262 Practice C, A262 Practice E, A923 Method A, A923 Method C
Ferrite Point Count	ASTM E562

CALIBRATION

I. Electrical – DC/Low Frequency:

Parameter/Equipment	Range	CMC[3] (±)	Comments
Calibration of Welding Equipment[1,2] DC Current - Measure	(10 to 30) A (30 to 300) A (300 to 500) A (500 to 1000) A (1000 to 2000) A	1.18E+00 3.55E+00 1.15E+01 3.39E+01 1.07E+02	WTTI-WEC-2 Extech Reference Clamp Meter/DMM
DC Voltage - Measure	(0 to 100) V	1.14E+00	AWS D1.1/D1.1M, D1.5/D1.5M; QC4 para.3.6
AC Current - Measure	(30 to 300) A (300 to 500) A	3.78E+00 1.67E+01	

[1] This laboratory performs field testing activities for these tests.

[2] This laboratory offers commercial calibration service and field calibration service.

[3] Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

Accredited Laboratory

A2LA has accredited

WTTI

Allentown, PA

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 24th day of February 2025.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3430.01
Valid to March 31, 2027

For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.

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NON-DESTRUCTIVE TESTING

Valid To: March 31, 2027 Certificate Number: 3430.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following nondestructive tests:

Test:	**Test Method(s):**
Visual Inspection (VT)[1]	ASME V, VIII, IX, B31.1, B31.3; API 650, 1104; AWS B2.1/B2.1M, D1.1/D1.1M, D1.2/D1.2M, D1.4/D1.4M; AASHTO/AWS D1.5/D1.5M, D1.6/D1.6M, D1.9/D1.9M, D14.1/D14.1M, D17.1/D17.1M; ISO 15614-1; MIL-STD 2035; T9074-AS-GIB 010/271; WTTI VT-1
Liquid Penetrant Inspection (PT) [1] (water washable, fluorescent and visible, solvent removable, fluorescent and visible, post emulsified, fluorescent and visible)	ASTM E165/E165M, E1210, E1220, E1417/E1417M; API 650, 1104; ASME V, VIII, IX, B31.1, B31.3; AWS B2.1/B2.1M, D1.1/D1.1M, D1.2/D1.2M, D1.4/D1.4M; AASHTO/AWS D1.5/D1.5M, D1.6/D1.6M, D1.9/D1.9M, D14.1/D14.1M, D17.1/D17.1M; ISO 15614-1; T9074-AS-GIB 010/271; MIL-STD 2035
Magnetic Particle Inspection (MT) [1] (wet bench, fluorescent and visible, yoke (AC and DC) wet fluorescent and dry visible, prods, dry visible)	ASTM A275/A275M[2], E709[2], E1444/E1444M[2]; API 650, 1104; ASME V, VIII, IX, B31.1, B31.3; AWS B2.1/B2.1M, D1.1/D1.1M, D1.4/D1.4M ; AASHTO/AWS D1.5/D1.5M, D14.1/D14.1M, D17.1/D17.1M; ISO 15614-1; MIL-STD 2035; NAVSEA T9074-AS-GIB-010/271
Ultrasonic Inspection (UT) [1] (contact straight and angle beam, phased array, thickness gaging)	ASTM A388/A388M, A435/A435M, A609/A609M, A898/A898M, E164, E317, E797/E797M, E2700;

Test:	**Test Method(s):**
Ultrasonic Inspection (UT) [1] (contact straight and angle beam, phased array, thickness gaging) *(cont'd)*	API 650, 1104; ASME III, V, VIII, IX, B31.1, B31.3; AWS B2.1/B2.1M, D1.1/D1.1M, D1.2/D1.2M, D1.4/D1.4M; AASHTO/AWS D1.5/D1.5M, D1.6/D1.6M, D1.9/D1.9M, D14.1/D14.1M, D17.1/D17.1M; MIL-STD 2035A; ISO 15614-1; MIL-STD 2035; NAVSEA T9074-AS-GIB-010/271
Radiographic Inspection (RT) (digital and film, X ray source)	ASTM E94/E94M, E747, E1032, E1742/E1742; API 1104; ISO 1435; ASME III, V, VIII, IX, B31.1, B31.3; AWS B2.1/B2.1M, D1.1/D1.1M, D1.2/D1.2M, D1.4/D1.4M; AASHTO/AWS D1.5/D1.5M, D1.6/D1.6M, D1.9/D1.9M, D14.1/D14.1M, D17.1/D17.1M; ISO15614-1; MIL-STD 2035; T9074-AS-GIB 010/271
Positive Material Identification	ASTM E572, E1476; API 578; Olympus Delta Professional Operations Manual
Ferrite Testing	ASTM A799, A800; Fischer Feritscope MP30E-S Operations Manual
Portable Hardness Testing	ASTM A370E, A956, E110, E140; Phase II, PHT-1800 Leeb Hardness Tester Operations Manual

[1] This laboratory performs field testing activities for these tests.

[2] This facility only uses single use magnetic particle solutions.

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Allentown, PA

for technical competence in the field of

Nondestructive Testing

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Presented this 24th day of February 2025.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3430.02
Valid to March 31, 2027

For the tests to which this accreditation applies, please refer to the laboratory's Nondestructive Scope of Accreditation.