



CERTIFICATE OF ACCREDITATION

This is to attest that

AEIS LLC

801 MONTROSE AVENUE
SOUTH PLAINFIELD, NEW JERSEY 07080, U.S.A.

Testing Laboratory TL-501

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date July 29, 2021



A handwritten signature in black ink, reading "Raj Nathan".

President

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

AEIS LLC

www.aeis.com

Contact Name Nagesh Goel

Contact Phone +1-732-702-1111

Accredited to ISO/IEC 17025:2017

Effective Date July 29, 2021

Mechanical	
API 1104	Welding of Pipelines and Related Facilities
ASME Section V	Non-destructive examination
ASME Section IX	Welding, Brazing, and Fusing Qualifications
ASTM A36	Standard Specification for Carbon Structural Steel
ASTM A47	Standard Specification for Ferritic Malleable Iron Coatings
ASTM A90	Standard Test Method for Weight [Mass] of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings
ASTM A123	Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
ASTM A148	Standard Specification for Steel Castings, High Strength, for Structural Purposes
ASTM A153	Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware
ASTM A183	Standard Specification for Carbon Steel Track Bolts and Nuts
ASTM A193	Standard Specification for Alloy-Steel and Stainless Steel Bolting for High Temperature or High Pressure Service and Other Special Purpose Applications
ASTM A370	Standard Test Methods and Definitions for Mechanical Testing of Steel Products
ASTM A563	Standard Specification for Carbon and Alloy Steel Nuts
ASTM A668	Standard Specification for Steel Forgings, Carbon and Alloy, for General Industrial Use
ASTM B487	Standard Test Method for Measurement of Metal and Oxide Coating Thickness by Microscopical Examination of Cross Section
ASTM D1002	Standard Test Method for Apparent Shear Strength of Single-Lap-Joint Adhesively Bonded Metal Specimens by Tension Loading (Metal-to-Metal)
ASTM D1654	Standard Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments
ASTM D3039	Standard Test Method for Tensile Properties of Polymer Matrix Composite Materials
ASTM D7565	Standard Test Method for Determining Tensile Properties of Fiber Reinforced Polymer Matrix Composites Used for Strengthening of Civil Structures

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ASTM E8	Standard Test Methods for Tension Testing of Metallic Materials
ASTM E10	Standard Test Method for Brinell Hardness of Metallic Materials
ASTM E18	Standard Test Methods for Rockwell Hardness of Metallic Materials
ASTM E21	Standard Test Methods for Elevated Temperature Tension Tests of Metallic Materials
ASTM E23	Standard Test Methods for Notched Bar Impact Testing of Metallic Materials
ASTM E110	Standard Test Method for Rockwell and Brinell Hardness of Metallic Materials by Portable Hardness Testers
ASTM E112	Standard Test Methods for Determining Average Grain Size
ASTM E139	Standard Test Methods for Conducting Creep, Creep-Rupture, and Stress-Rupture Tests of Metallic Materials
ASTM E190	Standard Test Method for Guided Bend Test for Ductility of Welds
ASTM E290	Standard Test Methods for Bend Testing of Material for Ductility
ASTM E292	Standard Test Methods for Conducting Time-for-Rupture Notch Tension Tests of Materials
ASTM E328	Standard Test Methods for Stress Relaxation Tests for Materials and Structures
ASTM E384	Standard Test Method for Microindentation Hardness of Materials
ASTM E399	Standard Test Method for Linear-Elastic Plane-Strain Fracture Toughness K_{Ic} of Metallic Materials
ASTM E566	Standard Practice for Electromagnetic (Eddy Current/Magnetic Induction) Sorting of Ferrous Metals
ASTM E986	Standard Practice for Scanning Electron Microscope Beam Size Characterization
ASTM F436	Standard Specification for Hardened Steel Washers Inch and Metric Dimensions
ASTM F606	Standard Test Methods for Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets
ASTM F959	Standard Specification for Compressible-Washer-Type Direct Tension Indicators for Use with Structural Fasteners, Inch and Metric Series
ASTM F1372	Standard Test Method for Scanning Electron Microscope (SEM) Analysis of Metallic Surface Condition for Gas Distribution System Components
Chemical	
ASTM A751	Standard Test Methods, Practices, and Terminology for Chemical Analysis of Steel Products
ASTM E3	Standard Guide for Preparation of Metallographic Specimens
ASTM E45	Standard Test Methods for Determining the Inclusion Content of Steel
ASTM E112	Methods for Determining the Average Grain Size Grain Size 1.0 (8.5 x 11)

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ASTM E340	Standard Practice for Macroetching Metals and Alloys
ASTM E351	Standard Test Methods for Chemical Analysis of Cast Iron—All Types
ASTM E381	Standard Method of Macroetch Testing Steel Bars, Billets, Blooms, and Forgings
ASTM E407	Standard Practice for Microetching Metals and Alloys
ASTM E415	Standard Test Method for Analysis of Carbon and Low-Alloy Steel by Spark Atomic Emission Spectrometry
ASTM E826	Standard Practice for Testing Homogeneity of a Metal Lot or Batch in Solid Form by Spark Atomic Emission Spectrometry
ASTM E1019	Standard Test Methods for Determination of Carbon, Sulfur, Nitrogen, and Oxygen in Steel, Iron, Nickel, and Cobalt Alloys by Various Combustion and Fusion Techniques
ASTM E1086	Standard Test Method for Analysis of Austenitic Stainless Steel by Spark Atomic Emission Spectrometry
ASTM E1251	Standard Test Method for Analysis of Aluminum and Aluminum Alloys by Spark Atomic Emission Spectrometry
ASTM E1476	Standard Guide for Metals Identification, Grade Verification, and Sorting
ASTM E1999	Standard Test Method for Analysis of Cast Iron by Spark Atomic Emission Spectrometry
ASTM E2209	Standard Test Method for Analysis of High Manganese Steel by Spark Atomic Emission Spectrometry
ASTM F606	Standard Test Methods for Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets
AWS B4.0	Standard methods for mechanical testing of welds
Dimensional	
ANSI/ASME B18.2.1	Square, Hex, Heavy Hex, and Askew Head Bolts and Hex, Heavy Hex, Hex Flange, Lobed Head, and Lag Screws (Inch Series)
ANSI/ASME B18.2.2	Nuts for General Applications: Machine Screw Nuts, Hex, Square, Hex Flange, and Coupling Nuts (Inch Series)
ANSI/ASME B18.10	Track Bolts and Nuts
ANSI/ASME B18.21.1	Washers: Helical Spring-Lock, Tooth Lock, and Plain Washers (Inch Series)
SAE J158	Automotive Malleable Iron Castings
SAE J423	Methods of Measuring Case Depth
SAE J431	Automotive Gray Iron Castings
SAE J434	Automotive Ductile (Nodular) Iron Castings
Environmental	
ASTM B117	Standard Practice for Operating Salt Spray (Fog) Apparatus

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MIL-STD-202G	Electronic and Electrical Component Parts (only Methods 101E (Salt Atmosphere - Corrosion) and 103B (Humidity-Steady State))
MIL-STD-810H	Environmental Engineering Considerations and Laboratory Tests (only Method 509.7 (Salt Fog))
NASM 1312-1	Fastener Test Methods Method 1 - Salt Spray
Non-Destructive Testing (NDT)	
API 1104	Welding of Pipelines and Related Facilities
ASME Section V	Non-destructive examination
ASME Section IX	Welding, Brazing, and Fusing Qualifications
ASTM E94	Standard Guide for Radiographic Examination
ASTM E164	Standard Practice for Contact Ultrasonic Testing of Weldments
ASTM E165	Standard Practice for Liquid Penetrant Examination for General Industry
ASTM E709	Standard Guide for Magnetic Particle Testing
ASTM E797	Standard Practice for Measuring Thickness by Manual Ultrasonic Pulse-Echo Contact Method
ASTM E1417	Standard Practice for Liquid Penetrant Testing
ASTM E1444	Standard Practice for Magnetic Particle Testing

API: American Petroleum Institute

ASME: American Society of Mechanical Engineers

ASTM: American Society for Testing Materials

AWS: American Welding Society