Hellenic Accreditation System

Annex F1/3 to the Certificate No. **1247**-3

SCOPE of ACCREDITATION

of the

Testing Laboratory
of
METRON Energy Applications S.A.
1st party NDT laboratory

Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
Non destructive tests		
Metallic Materials	1. Magnetic particle testing by the use of portable electromagnetic equipment (yoke). Examination for surface discontinuities	EN ISO 17638: 2016 Non-destructive examination of welds – Magnetic particle testing of welds ASME Boiler and pressure vessel code - Section V: 2025 – Non-destructive examination. Article 7: Magnetic particle examination ASTM E709-21 Standard method for magnetic particle examination EN 10228-1: 2016 Non-destructive testing of steel forgings – Part 1: Magnetic particle inspection EN 1369: 2012 Founding – Magnetic particle inspection ASTM E1444/E1444M-25 Standard practice for magnetic particle testing
Metallic Materials	2. Industrial radiographic inspection (Penetration thickness 1-90mm)	EN ISO 5579:2013 Non-destructive testing – Radiographic testing of metallic materials using film and X or gamma- rays – Basic rules ASME Boiler and pressure vessel code - Section V: 2025 – Non-destructive examination. Article 2: Radiographic examination ASTM E94/E94M-22 Standard guide for radiographic examination ASTM E1032-25 Standard Practice for Radiographic Examination of Weldments Using Industrial X-Ray Film EN ISO 17636-1: 2022 Non-destructive testing of welds – Radiographic testing – Part 1: X- and gamma-ray techniques with films

Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
Metallic Materials	3. Liquid penetrant testing Examination for surface discontinuities	EN 10228-2: 2016 Non-destructive testing of steel forgings – Part 2: Penetrant testing ASME Boiler and pressure vessel code - Section V: 2025 – Non-destructive examination. Article 6: Liquid penetrant examination ASTM E165 / E165M – 23 Standard practice for liquid penetrant examination for general industry EN ISO 3452-1: 2021 Non-destructive testing – Penetrant testing – Part 1: General principles EN 1371-1: 2011 Founding – Liquid penetrant inspection – Part 1: Sand, gravity die and low pressure die castings. ASTM E1417 / E1417M – 21e1 Standard practice for liquid penetrant testing
Metallic materials	4. Ultrasonic testing	EN ISO 16810: 2024 Non-destructive testing. Ultrasonic examination. General principles ASME Boiler and pressure vessel code - Section V: 2025 – Non-destructive examination. Article 4: Ultrasonic examination methods for in-service inspection. Article 5: Ultrasonic examination methods for materials and fabrication ASTM E 797/E797M-21 Standard practice for measuring thickness by manual ultrasonic pulse-echo contact method EN ISO 17640:2018 Non-destructive testing of welds – Ultrasonic testing - Techniques, testing levels and assessment
Mechanical Tests		
Tubing / Tanks / Pressure Vessels	1. Hydrostatic / Pneumatic test	ASTM E1003-13 (2022) Standard Practice for Hydrostatic Leak Testing ASTM A1047/A1047M-05 (2023) Standard Test Method for Pneumatic Leak Testing of Tubing
Flanges	2. Torquing test	ASME Code B16.5: 2025
Metallic materials	3. Portable Hardness Testing by the UCI Method	ASTM A1038: 2019

Site of assessment: **Laboratory permanent premises Dimitriou Riga 45, Magoula, Attiki, Greece**
Approved signatories: **I.Anastopoulos, P.Golfinopoulos**

This Scope of Accreditation replaces the previous one dated December 12th, 2022.
The Accreditation Certificate No. **1247**-3 to ELOT EN ISO/IEC 17025:2017, is valid until March 22nd, 2031.

Athens, February 6th, 2026

Konstantinou Evangelos Apostolos
CEO of ESYD