



Acceptance certificate

***In accordance with the requirements of the standard
SR EN ISO/CEI 17025: 2018***

Bureau Veritas SRL INDUSTRY DIVISION evaluated the quality management system of the destructive testing laboratory

“ VASTRUM TRANSCOM” S.R.L.
Ploiesti, ROMANIA

for alignment with the quality, technical competence, training and impartiality requirements of the SR EN ISO /CEI 17025:2018 standard, for the field of tests performed in its own laboratory for the following areas: regulated (Pressure Equipment Directive PED 2014/68/EU, including the qualification of permanent joining procedures and personnel) and voluntary (certification of welding personnel)

and has determined that the quality management system complies with these requirements for the following tests:

1. Tensile testing at ambient temperature (+20 °C)
2. Tensile testing at high temperature (up to + 900 °C)
3. Impact testing (+20°C..... -196°C)
4. Hardness Brinell, Vickers, Rockwell
4. Technological tests (flattening, widening, bending, ring tensile test, flange test)
5. Fracture tests
6. Nuts proof load test
7. Metallographic analysis
8. Chemical analysis

The test equipment used and found within the calibration validity period at the time of the audit, are specified in the annexes

Bucharest,

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Revision : -

Narcis Mocanu

Bureau Veritas SRL

The acceptance certificate remains valid for a period of three years from the date of issue, subject to annual surveillance visits carried out by the issuer and the maintenance of continuous ISO 9001 certification for the above-mentioned field.



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VERITAS**

ANNEX No.1-1

No.	Field of activity / Working technique / Name of examination	Material / product / object under examination	Reference document
(1)	(2)	(3)	(4)
A1 Mechanical tests			
1.	Tensile Testing at Ambient and Elevated Temperatures	Test Specimens from Metallic, Non-Metallic Materials and Their Welded Joints	SR EN ISO 6892-1:2020 SR EN ISO 4136:2022 SR EN ISO 5178:2019 SR EN ISO 377:2017 ASME BPVC VIII Div. 1 și 2, Ed. 2023 ASME BPVC IX, Ed. 2023 ASME B31.3 Ed. 2018 ASTM A370-24 ASTM E8/E8M-22 PS-LAB-11, applicable revision PS-LAB-12, applicable revision SR EN 13445-4+A1/23
2.	Impact tests at ambient and negative temperatures	Charpy Test Specimens (V-Notch / U-Notch) from Metallic Materials or Welded Joints	SR EN ISO 148-1:2017 SR EN ISO 9016:2022 SR EN ISO 377:2017 ASME BPVC VIII Div. 1 și 2, Ed. 2023 ASME BPVC IX, Ed. 2023 ASME B31.3, Ed. 2023 ASTM E23-24 ASTM A370-24 PS-LAB-11, applicable revision PS-LAB-13, applicable revision PO-LAB-01, applicable revision SR EN 13445-4+A1/23
3.	Hardness tests Brinell, Vickers, Rockwell	Metallic Materials and Welded Joints	SR EN ISO 6507-1:2023 SR EN ISO 6507-2:2018 SR EN ISO 6508-1:2024 SR EN ISO 6508-2:2024 SR EN ISO 9015-1:2011 ASME BPVC VIII Div. 1 și 2, Ed. 2019 ASME BPVC IX Ed.2019 ASME B31.3 Ed. 2018 ASTM E92-23 ASTM A956/A956M-22 ASTM E10-23 ASTM A1038-19 ASTM A370-24 PS-LAB-14, applicable revision PS-LAB-16, applicable revision IL-LAB-01, applicable revision SR EN 13445-4+A1/23



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ANNEX No.1-2

No.	Field of activity / Working technique / Name of examination	Material / product / object under examination	Reference document
A2 Technological tests			
4.	Bending tests	Metallic Materials and Welded Joints	SR EN ISO 377:2017 SR EN ISO 7438:2020 SR EN ISO 5173:2023 ASTM E290-22 ASTM E190-21 ASTM A370-24 ASME BPVC VIII, Ed. 2023 ASME BPVC IX, Ed. 2023 ASME B31.3, Ed. 2018 PS-LAB-15, applicable revision SR EN 13445-4+A1/23
5	Fracture tests	Tests of welded joints of metallic materials	SR EN ISO 9017:2018 SR EN ISO 9606-1:2017 SR EN ISO 9606-2:2005 PS-LAB-15, applicable revision PS-LAB-11, applicable revision SR EN 13445-4+A1/23
6	Flattening tests	Metallic materials , pipes and welded joints pipes	SR EN ISO 8492:2014 SR EN ISO 377:2017 PS-LAB-15, applicable revision PS-LAB-11, applicable revision SR EN 13445-4+A1/23
A3 Metallographic analysis			
7.	Metallographic analysis macroscopic și microscopic	Metallic materials and welded joints of the metallic materials	STAS 4203-74 SR EN 17639:2022 SR CEN ISO/TR 16060:2015 SR EN ISO 6520-1:2017 STAS 5500-74 STAS 7626-79 SR EN ISO 643:2020 SR ISO 305:2015 ASTM A370-09 ASTM E1351-01:2020 ASTM E3-11:2017 ASME BPVC VIII Div. 1; 2, Ed. 2023 ASME BPVC IX, Ed. 2023 ASME B31.3, Ed. 2018 PS-LAB-17, applicable revision SR EN 13445-4+A1/23
8	Micrographic determination of apparent grain size	Metallic materials	SR EN ISO 643:2020 PS-LAB-29, applicable revision
9.	Method for macroscopic determination of austenite grain size by fracture appearance	Metallic materials	STAS 7930-67 PS-LAB-29, applicable revision
10.	Micrographic determination of the content of non-metallic inclusions in steels	Metallic materials	SR EN ISO 10247:2017 SR EN ISO 4967:2013 PS-LAB-29, applicable revision



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No.	Field of activity / Working technique / Name of examination	Material / product / object under examination	Reference document
A4 Chemical analyses			
11.	Determination of intergranular corrosion resistance of stainless steels	Metallic materials	ASTM A262 EN ISO 3651-2 Method A PS-LAB-17, applicable revision
12.	Chemical composition determinations by optical emission spectrometric method	Metallic materials	SR EN ISO 14284:2023 ASME Sect. IIA:2023 IL-LAB-02, applicable revision PS-LAB-18, applicable revision
13.	Chemical composition determinations by X-ray fluorescence method	Metallic materials	SR EN ISO 14284:2003 SR EN 10315:2007 EN 15063-2:2007 ASTM E322-12 ASTM E572-21 PS-LAB-18, applicable revision
A5 Tests for examining welders for qualification purpose			
14.	Tests for examining welders for qualification purpose	Welded joints of metallic steel materials	SR EN ISO 9606-1:2017
A6 Welding procedures qualifications			
15	Welding procedures qualifications	Electric arc and gas welding of metallic materials	SR EN ISO 15614-1:2017/A1:2019



ANNEX No. 2

ECHIPAMENT	IDENTIFICARE	METODA
300KN Universal Testing Machine 'WAW-300B'	L200930-09	Tensile, compression, bending test
Thermostatic chamber/High temperature electric oven WGW-900_ Tmax. 900°C	L200930-10	High temperature tensile test
Semi-automatic pendulum hammer Impact test 'JB-300B	L200930-12	Ambient and low temperature impact bending test
Axial electronic extensometer _ L0=50mm "Model LG_YYU-10/50 -LG Testing"	L200930-0901	For determination of yield strength proportional to ambient temperature
Axial electronic extensometer L0=25mm "Model UEE2520/10F - UERLELIANT Technology Ltd."	E19258319	Proportional yield strength determinations at high temperatures
Optical projector CST-50M	L200930-11	Checking the notch of the specimens for testing in Impact Bending / Impact test / Resilience
Electronic chamber for specimen cooling CDW-80T_ Tmax. -80°C	L200930-13	Low temperature impact bending
Portable hardness tester SAUTER HMM Type D	111601020	Hardness Brinell, Vickers, Rockwel
Device for static hardness testing using the Brinell method HB-3000B	L221018-02	Brinell - Hardness determination
Device for static hardness testing using the Vickers method HV-30	L221018-03	Vickers - Hardness determination
Portable device for static hardness testing using the Brinell method HB-3000_ KING Tester Corporation	BC-92	Brinell - Hardness determination
Optical measurement system_IM-8030T, KEYENCE	C0P000207	Dimensional verification of specimens / notch of specimens for impact bending testing / Impact test
Chemical niche for metallography activities, chemical attacks, chemical reagent storage	VT-2024	Metallographic analysis & Inter-crystalline corrosion
Spectrometer – X Ray SPECTRO XSort – METEK SPECTRO Analytical Instruments GmbH	146578	Chemical analysis/ PMI