**ORDER**

**No. A 158**

**Sofia, 18.03.2021**

**Inspection body of type A** **"METAL CONTROL"**

**at “TECHCONTROL” LTD**

**Management address**: 6000, Stara Zagora, 100 General Stoletov Str., entr. A, floor 8, flat 32

**Office address:** 6078, village of Opan

**To perform inspection according to the following scope:**

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| **Scope type:** *flexible\** |
| **№** | **Field of Inspection** | **Type of Inspection** | **Parameter of inspection/****Characteristic** | **Test and Measurement Methods Used During Inspection** | **Regulations, Standards, Specifications, Schemes** |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | Pressure vessels, gas equipment and installations, steam and hot water pipelines; high and low pressure boilers; steam turbines and elements thereof; machines, equipment, constructions and elements thereof, containing sheets, rolled metal, welded joints, castings, forgings. | Radiographic control of new sites and facilities and sites and facilities in operation | type, size and location of incompletenesses/imperfections | WPC No 1 Working procedure for a radiographic control;БДС EN ISO 17636-1БДС EN ISO 19232-1БДС EN 19232-3БДС EN ISO 6520-1 | Ordinance on the structure, safe operation and technical supervision of gas facilities and installations for liquefied hydrocarbon gases, Art. 105, SG issue 82/2004Ordinance on the structure and safe operation of transmission and distribution gas pipelines and of natural gas facilities, installations and appliances, art. 9, SG issue 67/2004Ordinance on the design, safe operation and technical supervision of pressure equipment, Art. 19, 20, 21, SG issue 642008, Instruction NEC 02/1996PTM-1CTechnical SpecificationБДС EN ISO 10675-1БДС EN ISO 5817 |
| 2 | Pressure vessels, gas equipment and installations,steam and hot | Ultrasonic control of new sites andfacilities and | type, size and location of incompletenesses/imperfections | WPC No 2 Working procedure for a ultrasonic control;БДС EN ISO 16810 | Ordinance on the structure, safe operation and technical supervision of gas facilities and installations for liquefied |
|  | water pipelines; high and low pressure boilers; steam turbines and elements thereof;machines, equipment, constructions and elements thereof, containing sheets, rolled metal, welded joints, castings. | sites and facilities in operation |  | БДС EN ISO 16811БДС EN ISO 16823БДС EN ISO 23279БДС EN ISO 17640БДС EN 12680-1БДС EN 12680-2БДС EN 12680-3БДС EN ISO 10893-8БДС EN ISO 10893-10БДС EN ISO 10893-11БДС EN 10160БДС 9824 | hydrocarbon gases, Art. 105, SG issue 82/2004Ordinance on the structure and safe operation of transmission and distribution gas pipelines and of natural gas facilities, installations and appliances, art. 9, SG issue 67/2004Ordinance on the design, safe operation and technical supervision of pressure equipment, Art. 19, 20, 21, SG issue 642008, Instruction NEC 02/1996, PTM-1C,Technical SpecificationБДС EN 12680-1БДС EN 12680-2БДС EN 12680-3БДС EN ISO 11666БДС EN ISO 10893-8БДС EN ISO 10893-10БДС EN ISO 10893-11БДС EN 10160БДС 9824 |
| 3 | Pressure vessels, gas equipment and installations, steam and hot water pipelines; high and low pressure boilers; steam turbines and elements thereof; machines, equipment, constructions and elements thereof, containing sheets, rolled metal, welded joints, castings, forgings. | Magnetic dust control of new sites and facilities and sites and facilities in operation | type, size and location of incompletenesses/indications | WPC No 3 Working procedure for a magnetic dust control;БДС EN ISO 9934-1БДС EN ISO 3059БДС EN ISO 17638БДС EN 10228-1БДС EN ISO 10893-5БДС EN 1369 | Ordinance on the structure, safe operation and technical supervision of gas facilities and installations for liquefied hydrocarbon gases, Art. 105, SG issue 82/2004Ordinance on the structure and safe operation of transmission and distribution gas pipelines and of natural gas facilities, installations and appliances, art. 9, SG issue 67/2004Ordinance on the design, safe operation and technical supervision of pressure equipment, Art. 19, 20, 21, SG issue 642008, Instruction NEC 02/1996, PTM-1CTechnical SpecificationБДС EN ISO 23278БДС EN 10228-1БДС EN ISO 10893-5БДС EN 1369 |
| 4 | Pressure vessels, gas equipment and installations, steam and hot water pipelines; high and low pressure boilers; steam turbines and elements thereof; machines, equipment, constructions and elements thereof, containing sheets, rolled metal, welded joints, castings, forgings. | Capillary control of new sites and facilities and sites and facilities in operation | type, size and location of incompletenesses/indications | WPC No 4 Working procedure for a capillary controlБДС EN ISO 3452-1БДС EN ISO 3059БДС EN 10228-2БДС EN ISO 10893-4БДС EN 1371-1 | Ordinance on the structure, safe operation and technical supervision of gas facilities and installations for liquefied hydrocarbon gases, Art. 105, SG issue 82/2004Ordinance on the structure and safe operation of transmission and distribution gas pipelines and of natural gas facilities, installations and appliances, art. 9, SG issue 67/2004Ordinance on the design, safe operation and technical supervision of pressure equipment, Art. 19, 20, 21, SG issue 64/2008 Instruction NEC 02/1996, PTM-1C Technical SpecificationБДС EN ISO 23277БДС EN 10228-2БДС EN ISO 10893-4БДС EN 1371-1 |
| 5 | Pressure vessels, gas equipment and installations, steam and hot water pipelines; high and low pressure boilers; steam turbines and elements thereof; machines, equipment, constructions and elements thereof, containing sheets, rolled metal, welded joints. | Visual control of new sites and facilities and sites and facilities in operation | type, size and location of incompletenesses/imperfections | WPC No 5 Working procedure for a visual controlБДС EN ISO 17637 | Ordinance on the design, safe operation and technical supervision of pressure equipment, Art. 19, 20, 21, SG issue 64/2008БДС EN ISO 5817 |
| 6 | Pressure vessels, gas equipment and installations, steam and hot water pipelines; high and low pressure boilers; steam turbines and elements thereof; machines, equipment, constructions and elements thereof. | Ultrasonic control of wall thickness of new sites and facilities and sites and facilities in operation | Thickness of a wall | WPC No 6 Working procedure for a ultrasonic measurement of thicknessБДС EN 16809 | Ordinance on the structure, safe operation and technical supervision of gas facilities and installations for liquefied hydrocarbon gases, Art. 105, SG issue 82/2004Ordinance on the structure and safe operation of transmission and distribution gas pipelines and of natural gas facilities, installations and appliances, art. 9, art. 87, SG issue 67/2004Ordinance on the design, safe operation and technical supervision of pressure equipment, Art. 19, 20, 21, SG issue 64/2008 Instruction NEC 02/1996PTM-1CTechnical Specification |
| 7 | Pressure vessels, gas equipment and installations, steam and hot water pipelines; high and low pressure boilers; steam turbines and elements thereof; machines, equipment, constructions and elements thereof, containing sheets, rolled metal, welded joints, castings, forgings. | Hardness control by the Lieb method of new sites and facilities and sites and facilities in operation | Hardness by:Shore (HS);Brinell (HB);Vickers (HV);Rockwell (HRB);Rockwell (HRB); | WPC No 7 Working procedure for hardness control of ferrous and non-ferrous metals.ASTM A 956БДС EN ISO 18265 | Instruction NEC 02/1996, PTM-1CTechnical Specification |
| 8 | Ferrous metals | Spectrometric control of new sites and facilities and sites and facilities in operation | Type and presence of chemical elementsChromium /Cr/ Molybdenum /Mo/ Vanadium /v/ | WPC No 8 Working procedure for a spectrometric control | Instruction NEC 02/1996, PTM-1CTechnical Specification |
| 9 | Elbows from pipelines and heating surfaces | Ovality control of new sites and facilities and sites and facilities in operation | Ovality  | WPC No 9 Working procedure for an ovality control Instruction NEC 02/1996 | Instruction NEC 02/1996, PTM-1CTechnical Specification |
| 10 | Insulating anti-corrosion coating of: vessels, pressure vessels, gas equipment and installations, and pipelines; Machines, equipment, structures and elements thereof. | Electrosparkal control of new sites and facilities and sites and facilities in operation | The insulation coating density: presence/absence of a puncture | WPC No 9 Working procedure for an electrosparkal control БДС 15705 | Working procedure of Shell – version 4 from 2012БДС 15705 |
| 11 | Pressure vessels, gas equipment and installations, steam and hot water pipelines; high and low pressure boilers; steam turbines and elements thereof; | Gas-hydraulic method for control using foaming compositions of new sites and facilities and sites and facilities in operation | Density/tightnessPresence/ absence of leakage | WPC No 9 Working procedure for a vacuum controlБДС EN 1593БДС 17111, item III.2 | БДС EN 1593БДС 17111, item III.2 |

*\*The introduction of a new version of standards/documents or standards/documents replacing them is permitted. An updated list of the standards/documents with their dated versions is provided by CAB.*

**OSSOTSGFILHG** - Ordinance on the structure, safe operation and technical supervision of gas facilities and installations for liquefied hydrocarbon gases

**OSSOTDGPNGFIA** - Ordinance on the structure and safe operation of transmission and distribution gas pipelines and of natural gas facilities, installations and appliances

**ODSOTSPE** - Ordinance on the design, safe operation and technical supervision of pressure equipment

**PTM-1C** - Welding, heat treatment and control of the piping systems of boilers and pipelines during installation and repair of power equipment.