**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

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**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 17636-1  БДС EN ISO 19232-1  БДС EN 19232-3  БДС 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 82/2004  Ordinance on the structure and safe operation of transmission and distribution gas pipelines and of natural gas facilities, installations and appliances, art. 9, SG issue 67/2004  Ordinance 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 Specification  БДС EN ISO 10675-1  БДС EN ISO 5817 |
| 2 | Pressure vessels, gas equipment and installations,  steam and hot | Ultrasonic control of new sites and  facilities 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 16811  БДС EN ISO 16823  БДС EN ISO 23279  БДС EN ISO 17640  БДС EN 12680-1  БДС EN 12680-2  БДС EN 12680-3  БДС EN ISO 10893-8  БДС EN ISO 10893-10  БДС EN ISO 10893-11  БДС EN 10160  БДС 9824 | hydrocarbon gases, Art. 105, SG issue 82/2004  Ordinance on the structure and safe operation of transmission and distribution gas pipelines and of natural gas facilities, installations and appliances, art. 9, SG issue 67/2004  Ordinance 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 Specification  БДС EN 12680-1  БДС EN 12680-2  БДС EN 12680-3  БДС EN ISO 11666  БДС EN ISO 10893-8  БДС EN ISO 10893-10  БДС EN ISO 10893-11  БДС EN 10160  БДС 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 9934-1  БДС EN ISO 3059  БДС EN ISO 17638  БДС EN 10228-1  БДС EN ISO 10893-5  БДС EN 1369 | Ordinance on the structure, safe operation and technical supervision of gas facilities and installations for liquefied hydrocarbon gases, Art. 105, SG issue 82/2004  Ordinance on the structure and safe operation of transmission and distribution gas pipelines and of natural gas facilities, installations and appliances, art. 9, SG issue 67/2004  Ordinance 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 Specification  БДС EN ISO 23278  БДС EN 10228-1  БДС EN ISO  10893-5  БДС 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 control  БДС EN ISO 3452-1  БДС EN ISO 3059  БДС EN 10228-2  БДС EN ISO 10893-4  БДС 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 82/2004  Ordinance on the structure and safe operation of transmission and distribution gas pipelines and of natural gas facilities, installations and appliances, art. 9, SG issue 67/2004  Ordinance 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 Specification  БДС EN ISO 23277  БДС EN 10228-2  БДС EN ISO 10893-4  БДС 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 control  БДС EN ISO 17637 | Ordinance on the design, safe operation and technical supervision of pressure equipment, Art. 19, 20, 21, SG issue 64/2008  БДС 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 thickness  БДС EN 16809 | Ordinance on the structure, safe operation and technical supervision of gas facilities and installations for liquefied hydrocarbon gases, Art. 105, SG issue 82/2004  Ordinance 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 67/2004  Ordinance 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 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 956  БДС EN ISO 18265 | Instruction NEC 02/1996, PTM-1C  Technical Specification |
| 8 | Ferrous metals | Spectrometric control of new sites and facilities and sites and facilities in operation | Type and presence of chemical elements  Chromium /Cr/ Molybdenum /Mo/  Vanadium /v/ | WPC No 8 Working procedure for a spectrometric control | Instruction NEC 02/1996, PTM-1C  Technical 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-1C  Technical 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 2012  БДС 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  /tightness  Presence/ absence of leakage | WPC No 9 Working procedure for a vacuum control  БДС EN 1593  БДС 17111, item III.2 | БДС EN 1593  БДС 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.