**ORDER**

**№ A 612**

**Sofia, 19.10.2022**

Pursuant to Art 10, para. 1, item 4 and Art. 28, para. 1 of the Law on National Accreditation of Conformity Assessment Bodies and item 6 of the BAS QR 2 Accreditation Procedure in connection with an open procedure reg. № 243/144 ОКА/ПА/25.03.2022, assessment report reg. № 243/44 ОКА/ПА/4/В/23.06.2022, and statement of the Accreditation Commission reg. № 243/44 OKA/9/B/17.10.2022, I hereby

**RE-ACCREDIT**

**INSPECTION BODY of type A**

**at CONTROL OOD, Sofia**

**Мanagement аddress:** 6300, Haskovo, "San Stefano" Str. № 14, fl. 3

**Оffice аddress:** 6300, Haskovo, "Dimitrovgradsko shosе" Str. № 1

**To perform inspection of:**

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| --- | --- | --- | --- | --- | --- |
| **Scope type:** Flexible for part of the scope\* | | | | | |
| **№** | **Field of inspection:** | **Type of inspection** | **Inspected parameter/**  **characteristic** | **Methods of testing and measurement used during inspection** | **Normative acts, standards, specifications, schemes** |
| **1** | **2** | **3** | **4** | **5** | **6** |
| 1. | Equipment manufactured of metallic materials: pipelines; gas equipment and installations; pressure vessels; low and high pressure boilers; steam turbines; elevating and transport equipment; machinery; constructions and elements for them; cisterns-basic metal, welded joints and their samples\*. | Initial and/or periodic inspection of products and equipment - new and/or in service /operation. | Presence, type, size and location of surface discontinuities/imperfections by means of Visual testing (VT): | РПК1. | (НУБЕТНСН) (Official gazette, issue 64/2008, Chapter 1, art. 19 and art. 21);  (РД 153-34.1-003 (РТМ-1с)), Chapter 18.3, Item 18.3.4 and Tables 18.2, 18.6, 18.7, 18.8 and 18.9;  Technical Specification (ТС). |
| in welded joints | БДС EN 13018;  БДС EN ISO 17637;  ASME Code, Section V, Subsection A, Article 9. | БДС ЕN ISO 5817;  БДС EN ISO 10042;  БДС ЕN 12952-6, Table 9.3-1;  AWS Structural Welding Code D1.1/D1.1M; Clause 6, Paragraph 6.10.1, Clause 7, Paragraph 7.13, Paragraph 7.23 – Table 7.7, Table 7.8, Table 7.9 and Fig. 7.4; Clause 8, Table 8.1; Clause 10, Table 10.15;  ASME Code, Section IX, Part QW, Article I, Paragraph QW-194;  ASME Code for Power Piping, B31.1, Paragraph 136.4.2. |
| in solder joints | БДС EN 13018. | БДС EN ISO 18279. |
| in castings | БДС EN 13018. | Technical Specification (ТС). |
| in forgings | БДС EN 10163-1;  БДС EN 13018. | БДС EN 10163-2;  БДС EN 10163-3 |
| 2. | Equipment manufactured of metallic materials: pipelines; gas equipment and installations; pressure vessels; low and high pressure boilers; steam turbines; elevating and transport equipment; machinery; constructions and elements for them; cisterns-basic metal, welded joints and their samples\*. | Initial and/or periodic inspection of products and equipment - new and/or in service /operation. | Presence, type, size and location of indications of surface and subsurface imperfections by means of Magnetic-particle testing (MT): | РПК 2 | (НУБЕТНСН) (Official gazette, issue 64/2008, Chapter 1, чл. 21);  (ПИПСМР), part "Buildings", Section "Non-destructive testing of metal and welded joints", art. 23 and table 9;  (РД 153-34.1-003 (РТМ-1с)), Chapter 18.8, Item 18.3.4 and Table 18.2;  Technical Specification (ТС). |
| in welded joints | БДС EN ISO 3059;  БДС 7156;  БДС 15575+ Amendment 1;  БДС EN ISO 9934-1;  БДС EN ISO 17638;  ASTM E709;  ASTM E1444/E1444M;  ASME Code, Section V, Subsection A,  Article 7. | БДС ЕN ISO 5817;  БДС EN ISO 23278;  ASME Code, Section VIII, Div. 1, Appendix 6;  AWS Structural Welding Code D1.1/D1.1M; Clause 8, Table 8.1; Clause 10, Table 10.15;  ASME Code for Power Piping, B31.1, Paragraph 136.4.3;  ASME Code for Process Piping, B31.3, Paragraph 341.3.2, Table 341.3.2. |
| in castings | БДС EN 1369;  БДС 7156;  БДС EN ISO 3059;  БДС EN ISO 9934-1. | БДС EN 1369. |
| in forgings | БДС EN ISO 3059;  БДС 7156;  БДС EN ISO 9934-1;  БДС EN 10228-1;  БДС EN ISO 10893-5. | БДС EN 10228-1;  БДС EN ISO 10893-5. |
| 3. | Equipment manufactured of metallic materials: pipelines; gas equipment and installations; pressure vessels; low and high pressure boilers; steam turbines; elevating and transport equipment; machinery; constructions and elements for them; cisterns-base metal, welded joints and their samples\*. | Initial and/or periodic inspection of products and equipment - new and/or in service /operation. | Presence, type, size and location of indications of surface imperfections by means of Liquid Penetrant Testing (PT): | РПК3. | (НУБЕТНСН)(Official gazette, issue 64/2008, Chapter 1, art. 21);  Welding, heat treatment and inspection of boiler piping systems and pipelines during installation and repair of energy equipment (РД 153-34.1-003 (РТМ-1с)), Chapter 18.8, Item 18.3.4, Item 18.8.3 and Table 18.2;  Technical Specification (ТС). |
| in welded joints | БДС EN ISO 3059;  БДС EN ISO 3452-1;  ASTM E165/E165M;  ASTM E1417/E1417M;  ASME Code, Section V, Subsection A, Article 6. | БДС EN ISO 5817;  БДС EN ISO 10042;  БДС EN ISO 23277;  ASME Code, Section VIII, Div. 1, Appendix 8;  ASME Code, Section IX, Part QW, Article I, Paragraph QW-195.2;  AWS Structural Welding Code D1.1/D1.1M; Clause 8, Table 8.1; Clause 10, Table 10.15;  ASME Code for Power Piping, B31.1, Paragraph 136.4.4;  ASME Code for Process Piping,  B31.3, Paragraph 341.3.2, Table 341.3.2. |
| in solder joints | БДС EN ISO 3059;  БДС EN ISO 3452-1;  БДС ЕN 12799+A1. | БДС ЕN 12799+A1. |
| in castings | БДС EN 1371-1;  БДС EN ISO 3059;  БДС EN ISO 3452-1. | БДС EN 1371-1. |
| in forgings | БДС EN ISO 3059;  БДС EN ISO 3452-1;  БДС EN 10228-2;  БДС EN ISO 10893-4. | БДС EN 10228-2;  БДС EN ISO 10893-4. |
| 4. | Equipment manufactured of metallic materials: pipelines; gas equipment and installations; pressure vessels; low and high pressure boilers; elevating and transport equipment; machinery; constructions and elements for them; cisterns-base metal, welded joints and their samples\*. | Initial and/or periodic inspection of products and equipment - new and/or in service /operation. | Presence, type, size and location of indications of imperfections by means of Radiographic testing (RT): | РПК4  of welded and soldered joints;  РПК5  of castings. | (НУБЕТНСН) (Official gazette, issue 64/2008, Chapter 1, art. 19 and art. 21);  (НУБЕТНГСИВВГ) (Official gazette, issue 82/2004, Chapter 2, Section XI, art. 105);  (ПИПСМР), part "Buildings", Section "Non-destructive testing of metal and welded joints", art. 7, art. 30, art. 38, art. 44, art. 51;  (РД 153-34.1-003 (РТМ-1с)), Chapter 18.5 and Tables 18.6, 18.7, 18.8 and 18.9;  Technical Specification (ТС). |
| in welded joints | БДС EN ISO 5579;  БДС EN ISO 10893-6;  БДС ЕN ISO 17636-1;  ASTM E94/Е94М;  ASTM E1742/1742M;  ASME Code, Section V, Subsection A, Article 2;  AWS Structural Welding Code D1.1/D1.1M, Clause 8, Part E. | БДС ЕN ISO 5817;  БДС ЕN ISO 6520-1;  БДС EN ISO 10042;  БДС EN ISO 10675-1;  БДС EN ISO 10675-2;  БДС ЕN ISO 10893-6;  БДС 13060;  БДС ЕN 12952-6, Table 9.4-1;  ASME Code, Section VIII, Div. 1, Subsection B, Part UW, Paragraph UW-51, Paragraph UW-52 and Appendix 4;  AWS Structural Welding Code D1.1/D1.1M; Clause 8, Part C, Paragraph 8.12;  ASME Code, Section IX, Part QW, Article I, Paragraph QW-191.1.2;  ASME Code for Power Piping, B31.1, Paragraph 136.4.5;  ASME Code for Process Piping, B31.3, Paragraph 341.3.2, Table 341.3.2. |
| in solder joints | БДС EN ISO 5579;  БДС ЕN 12799+A1. | БДС ЕN 12799+A1;  БДС EN ISO 18279. |
| in castings | БДС EN ISO 5579;  БДС ЕN 12681-1 | БДС ЕN 12681-1. |
| 5. | Equipment manufactured of metallic materials: pipelines; gas equipment and installations; pressure vessels; low and high pressure boilers; elevating and transport equipment; machinery; constructions and elements for them; cisterns-base metal, welded joints and their samples\*. | Initial and/or periodic inspection of products and equipment - new and/or in service /operation. | Presence, type, size and location of indications of imperfections by means of Ultrasonic testing (UT): | РПК 6- of castings and forgings;  РПК 7- of welded and soldered joints. | (НУБЕТНСН) (Official gazette, issue 64/2008, Chapter 1, art. 19 and art. 21);  (НУБЕТНГСИВВГ) (Official gazette, issue 82/2004, Chapter 2, Section XI, art. 105);  (ПИПСМР), part "Buildings", Section "Non-destructive testing of metal and welded joints", art. 14, art. 20 and art. 45;  (РД 153-34.1-003 (РТМ-1с)),Chapter 18.5 and Table 18.10, and Table 18.11;  Technical Specification (ТС). |
| in welded joints | БДС ЕN ISO 16810;  БДС ЕN ISO 16811;  БДС ЕN ISO 16826;  БДС ЕN ISO 16827**;**  БДС ЕN ISO 16828;  БДС 9824;  БДС 9234- cancelled with no replacement;  БДС 10037- cancelled with no replacement;  БДС 13598- cancelled with no replacement;  БДС 14924- cancelled with no replacement;  БДС 16323;  БДС EN ISO 17640;  БДС EN ISO 22825;  БДС EN ISO 23279;  ASME Code, Section V, Subsection A, Article 4;  AWS Structural Welding Code D1.1/D1.1M, Clause 8, Part F | БДС EN ISО 5817;  БДС 9824;  БДС 10037- cancelled, with no replacement;  БДС EN ISO 11666;  БДС 13598- cancelled with no replacement;  БДС 14924- cancelled with no replacement;  ASME Code, Section VIII, Division 1, Appendix 12;  AWS Structural Welding Code D1.1/D1.1M; Clause 8, Part C, Paragraph 8.13;  ASME Code, Section IX, Part QW, Article I, Paragraph QW-191.2.3; ASME Code for Power Piping, B31.1, Paragraph 136.4.6;  ASME Code for Process Piping, B31.3, Paragraph 344.6.2. |
| in castings | БДС ЕN ISO 16810;  БДС ЕN ISO 16811;  БДС ЕN ISO 16823;  БДС ЕN ISO 16826;  БДС ЕN ISO 16827**;**  БДС ЕN ISO 16828;  БДС 9234 (cancelled with no replacement);  БДС ЕN 12680-1;  БДС ЕN 12680-2;  БДС ЕN 12680-3. | БДС ЕN 12680-1;  БДС ЕN 12680-2;  БДС ЕN 12680-3. |
| in forgings | БДС ЕN ISO 16810;  БДС ЕN ISO 16811;  БДС ЕN ISO 16823;  БДС Е ISO 16826;  БДС ЕN ISO 16827**;**  БДС ЕN ISO 16828;  БДС 9233;  БДС 9234 (cancelled with no replacement);  БДС EN 10160;  БДС EN 10228-3;  БДС ЕN 10228-4;  БДС ЕN 10306;  БДС ЕN 10307;  БДС ЕN 10308;  БДС ЕN ISO 10893-8+А1;  БДС ЕN ISO 10893-10+А1;  БДС 13661;  БДС 14923;  ASME Code, Section V, Subsection A, Article 5. | БДС EN 10160;  БДС EN 10228-3;  БДС ЕN 10228-4;  БДС ЕN ISO 10893-8+А1;  БДС ЕN ISO 10893-10+А1;  БДС ЕN 10306;  БДС ЕN 10307;  БДС ЕN 10308;  БДС 13661.  ASME Code, Section VІІІ-Division I, Part UF, Paragraph UF-55;  ASTM A435/435M, Paragraph 6;  ASTM A577/577M, Paragraph 10;  ASTM A578/578M, Paragraph 7, Paragraph 8 and Paragraph 9;  ASTM A745/745М, Paragraph 12;  ASTM B548, Paragraph 9;  AMS-STD-2154, |
| 6. | Equipment manufactured of metallic materials: pipelines; gas equipment and installations; pressure vessels; low and high pressure boilers; elevating and transport equipment; machinery; constructions and elements for them; cisterns-base metal, welded joints and their samples\*. | Initial and/or periodic inspection of products and equipment - new and/or in service /operation. | Wall thickness by means of Ultrasonic thickness measurement (UTМ). | РПК 8;  БДС EN ISO 16809;  ASTM E797/Е797М. | Technical Specification (ТС). |
| Equipment manufactured of metallic materials: cisterns-base metal and its samples\*. | Periodic inspection of products and equipment - in service /operation. | РПК 8;  БДС EN ISO 16809. | European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), Annex A, Volume II, Chapter 6.8,  Item 6.8.2.1.17, Item 6.8.2.1.18, Item 6.8.2.1.19, Item 6.8.2.1.20 and Item 6.8.2.1.21;  Regulation concerning the International Carriage of Dangerous Goods by Rail (RID), Part 6, Chapter 6.7,  Item 6.7.2.4, Item 6.7.3.4;  Chapter 6.8, Item 6.8.2.1.17,  Item 6.8.2.1.18, Item 6.8.2.1.19 and Item 6.8.2.1.20;  Technical Specification (ТС). |
| 7. | Equipment manufactured of metallic materials: sheets, pipes, pipelines; bars; castings; forgings; pressure vessels and equipment; low and high pressure boilers; steam turbines; machinery; constructions; cisterns-base metal, welded joints and their samples\*. | Initial and/or periodic inspection of products and equipment - new and/or in service /operation. | Destructive tests (DT): | РПК 9 | ASME Code, Section IX, Part QW, Article I, Paragraph QW-153;  Technical Specification (ТС). |
| tensile strength; yield strength; relative elongation and shrinkage | БДС EN ISO 4136;  БДС EN ISO 6892-1;  БДС EN ISO 15792-1;  БДС EN ISO 15792-2;  БДС EN ISO 9018;  ASME Code, Section IX, Part QW, Article I, Paragraph QW-150, Paragraph QW-152,  ASTM A370. |
|  | bending | БДС 1084;  БДС EN ISO 5173+A1;  БДС EN ISO 7438;  БДС EN ISO 8491;  ASME Code, Section IX, Part QW, Article I, Paragraph QW-160, Paragraph QW-162, Paragraph QW-192.1.1;  ASTM A370. | БДС EN ISO 7438;  БДС EN ISO 8491;  ASME Code, Section IX, Part QW, Article I, Paragraph QW-163, Paragraph QW-192.1.2;  Technical Specification (ТС). |
| absorbed energy / impact toughness | БДС EN ISO 148-1;  БДС EN ISO 9016;  БДС 12114;  ASTM A370. | Technical Specification (ТС). |
| 8. | Equipment manufactured of metallic materials: sheets, pipes, bars; castings; forgings; pipelines; gas equipment and installations; pressure vessels; low and high pressure boilers; steam turbines; machinery, constructions and elements for them; cisterns-base metal, welded joints and their samples\*. | Initial and/or periodic inspection of products and equipment - new and/or in service /operation. | Hardness test acc. to:  Brinell (HBW);  Rockwell (HR), scale A, scale B and scale C;  Vickers (HV)  Leeb (HL). | РПК10.  БДС EN ISO 6506-1;  БДС EN ISO 6507-1;  БДС EN ISO 6508-1;  БДС EN ISO 9015-1;  БДС EN ISO 9015-2;  БДС EN ISO 18265;  ASTM A956/А956М\*;  БДС EN ISO 16859-1. | (РД 153-34.1-003 (РТМ-1с)), Chapter 18.4 and Table 18.3;  Technical Specification (ТС). |
| 9. | Equipment manufactured of metallic materials: pipelines, tube bends  and heating surfaces (tube coils, heat exchanging tubes) - base metal, welded joints and their samples\*. | Initial and/or periodic inspection of products and equipment - new and/or in service /operation. | Presence of the chemical elements chromium (Cr), molybdenum (Mo) and vanadium (V) in steels by means of Spectral analysis. | РПК11 \*\*  Validated method | (РД 153-34.1-003 (РТМ-1с)),Chapter 18.2, Table 18.1 and Annex 25;  Technical Specification (ТС). |
| 10. | Equipment manufactured of metallic materials: pipelines; gas equipment and installations; tanks; pressure vessels; low and high pressure boilers; constructions and elements for them; cisterns-base metal, welded joints and their samples\*. | Initial and/or periodic inspection of products and equipment - new and/or in service /operation. | Hermeticity (presence/  absence of leakage) by means of Leak testing (LT) (gas-hydraulic methods) using foaming compounds. | РПК12;  БДС EN 1593+А1;  БДС 17111, Item ІІІ.2. | БДС EN 1593+А1;  Technical Specification (ТС). |
| 11. | Coatings on ferromagne  tic and non-ferromagne  tic bases | Initial and/or periodic inspection of products and equipment - new and/or in service /operation. | Thickness measurement by means of Eddy-current testing (ECT) and Magnetic induction testing methods | РПК13.  БДС EN ISO 2178;  БДС EN ISO 2360;  БДС 15600. | Technical Specification (ТС). |
| 12. | Electrical insulation coatings of metals\*. | Initial and/or periodic inspection of products and equipment - new and/or in service /operation. | Density of insulation coating by means of Electro-sparkling testing method. | РПК14;  БДС 15705+ Amendment 1 | (НУБЕПРГСИУПГ) (Official gazette, issue 67/2004, Chapter II, Section II, art. 22, art. 2, Item 4, art. 23);  (НУБЕТНГСИВВГ) (Official gazette, issue 82/2004, amended and supplemented, Official gazette, issue 103 from 12/2020, Chapter II, Section I, art. 15, art.3, Chapter II, Section II, art. 30, art. 1);  БДС15705+ Amendment 1;  Technical Specification (ТС). |
| 13. | Rope way- lines for transportation of passengers\*. | Initial and/or periodic inspection of products and equipment - new and/or in service /operation. | Presence, type, size and location of discontinuities/imperfections in ropes by means of Magnetic Rope Testing (MRT). | РПК15  БДС EN 12927 | (НБЕТНВЛ) (Official gazette, issue 58/2014, Chapter 3, art. 18, Annex №1; Chapter 4, Section IV, art. 68, item 1 and Annex №3, item 2 and Annex №4, item 3; art. 69, item 1 and Annex №5, item 2; art. 70, item 1 and Annex №6; art. 73, item 1 and Annex №4, item 2 and Annex №5; art.74 and Annex №7; art. 75 and Annex №8; art. 76, item 1, item 2 and item 3);  БДС EN 12927  Technical Specification (ТС). |
| 14. | Pipelines, tube bends and heating surfaces (tube coils, heat exchanging tubes)\*. | Initial and/or periodic inspection of new and/or in service /operation. | Ovality | РПК16.  БДС ЕN 12952-5, Item 7.3.7;  БДС EN 13480-4+А1, Item 7.4. | БДС ЕN 12952-5, Item 7.3.7;  БДС EN 13480-4+А1, Item 7.4.  Technical Specification (ТС). |
| 15. | Welded joints manufactured of metallic materials\*. | Initial inspection of new products and equipment | Types, sizes and distribution of the imperfections contained in the weld volume by means of Destructive tests (DT). | РПК17;  БДС EN ISO 17637;  БДС EN ISO 9017;  ASME Code, Section V, Subsection A, Article 9;  ASME Code, Section IX, Part QW, Article I, Paragraph QW-180, Paragraph QW-182. | БДС EN ISO 5817;  БДС EN ISO 10042;  ASME Code, Section IX, Part QW, Article I, Paragraph QW-182.  Technical Specification (ТС). |