**ORDER**

**No. A 243**

**Sofia, 19.06.2023**

**Inspection Body “Defectoscopy of type C at TPP - Bobov Dol” Ltd., village of**

**Golemo Selo, Kyustendil Region**

**Management address:** 2635, village of Golemo Selo, Kyustendil Region

**Office address:** 2635, village of Golemo Selo, Kyustendil Region, Bobov dol Municipality, administration building, floor 8, offices 1 and 2

**To perform inspection of:**

|  |
| --- |
| **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 | Metal products (seamless pipes, rolled products, forgings,castings), lifting equipment, gas equipment and installations, boilers, pressure vessels, pipelines and tanks - base metal and welded joints - non-destructive testing. | On new and/or in use/operation facilities/products | Type, size and location of non-integrity/imperfections by radiographic inspection method | БДС EN ISO 5579;БДС EN ISO 17636-1;БДС EN 12681; БДС EN ISO 10893-6. РПК-НК - Р 10.2.1 | БДС EN ISO 5817;БДС EN ISO 10893-6;БДС EN ISO 10675-1;БДС EN 13060; БДС EN ISO 17635;БДС EN ISO 6520-1. ИКМОТСЕСКТT\*1-НЕК-1996 ИПЕРСВЦРОСЕ\*2-НЕК-1995НУБЕПРГСИУПГ\*3 (Updated SG issue 67 of 2004 , Art. 9)·НУБЕТНГСИВВГ\*4  (Updated SG issue 82 of 2004, Art. 105)НУБЕТСПН\*5 (Updated SG issue 64 of 2008, Art. 19 and Art.21)ТС\*6 |
| 2 | Metal products (seamless pipes, rolled products, forgings,castings), lifting equipment, gas equipment and installations, boilers, pressure vessels, pipelines and tanks - base metal and welded joints - non-destructive testing. | On new and/or in use/operation facilities/products | Type, size and location of non-integrity/imperfections by ultrasonic inspection method | БДС EN ISO 17640;БДС 9233; БДС 9234 - revoked without replacement;БДС 10037 - revoked without replacement;БДС EN10160; БДС EN 10228-3;БДС EN 10228-4;БДС 10308; БДС EN 12680-1;БДС EN 12680-2;БДС EN 12680-3;БДС 13598 - revoked without replacement;БДС 13661;БДС 14923;БДС 14924 - revoked without replacement;РПК-НК - Р 10.2.2. | БДС EN ISO 11666; БДС EN ISO 5817;БДС EN ISO 6520-1;БДС EN ISO 17635; БДС ЕN ISO 10160;БДС EN 10228-3;БДС EN 10228-4;БДС 10308;БДС EN 12680-1;БДС EN 12680-2;БДС EN 12680-3;БДС 13661;БДС EN ISO 23279. ИКМОТСЕСКТT\*1-НЕК-1996ИПЕРСВЦРОСЕ\*2-НЕК-1995 НУБЕПРГСИУПГ\*3 (Updated SG issue 67 of 2004, Art. 9)НУБЕТНГСИВВГ\*4 (Updated SG issue 82 of 2004, Art.105).НУБЕТСПН\*5 (Updated SG issue 64 of 2008 Art. 19 and Art. 21)ТС\*6 |
| 3 | Metal products (seamless pipes, rolled products, forgings,castings), lifting equipment, gas equipment and installations, boilers, pressure vessels, pipelines and tanks - base metal and welded joints - non-destructive testing. | On new and/or in use/operation facilities/products | Wall thickness by ultrasonic inspection method | БДС EN ISO 16809 РПК-НК - Р10.2.3 | ИКМОТСЕСКТП\*1-НЕК- 1996 ИПЕРСВЦРОСЕ\*2-НЕК-1995 НУБЕПРГСИУПГ\*3 (Updated, SG issue 67 of 2004, Art. 9 and Art. 87)НУБЕТНГСИВВГ\*4 (Updated, SG issue 82 of 2004, Art. 5, Art. 6 and Art. 105). НУБЕТСПН\*5 (Updated, SG issue 64 of 2008, Art. 19)ТС\*6 |
| 4 | Metal products (seamless pipes, rolled products, forgings,castings), lifting equipment, gas equipment and installations, boilers, pressure vessels, pipelines and tanks - base metal and welded joints - non-destructive testing. | On new and/or in use/operation facilities/products | Type and size of surface and subsurface non-integrity/imperfections by magnetic-powder inspection method | БДС EN 1369; БДС EN ISO 10893-5;БДС EN ISO 9934-1;БДС EN 10228- 1;БДС 15575; БДС EN ISO 17638;РПК-НК Р 10.2.4. | БДС EN ISO 23278;БДС EN 1369;БДС EN ISO 10893-5;БДС EN 10228-1;БДС EN ISO 6520-1. ИКМОТСЕСКТТ\*1-НЕК-1996 ИПЕРСВЦРОСЕ\*2-НЕК-1995 НУБЕПРГСИУПГ\*3 (Updated, SG issue 67 of 2004, Art.9)НУБЕТНГСИВВГ\*4 (Updated, SG issue 82 of 2004, Art. 105)НУБЕТСПН\*5 (Updated, SG issue 64 of 2008, Art.21)ТС\*6 |
| 5 | Metal products (seamless pipes, rolled products, forgings,castings), lifting equipment, gas equipment and installations, boilers, pressure vessels, pipelines and tanks - base metal and welded joints - non-destructive testing. | On new and/or in use/operation facilities/products | Type and size of surface non-integrity/imperfections by capillary inspection method | БДС EN ISO 3452-1;БДС EN 1371-1; БДС EN 1371-2; БДС EN ISO 10893-4;БДС 15830;БДС EN 10228- 2;РПК-НК - Р 10.2.5. | БДС EN 10228-2;БДС EN ISO 23277;БДС EN 1371-1 and 2;БДС EN ISO 10893-4; БДС EN ISO 6520-1. ИКМОТСЕСКГП\*1-НЕК-1996 ИПЕРСВЦРОСЕ\*2-НЕК-1995 НУБЕПРГСИУПГ\*3 (Updated, SG issue 67 of 2004, Art.9)НУБЕТНГСИВВГ\*4 (Updated, SG issue 82 of 2004, Art. 105)НУБЕТСПН\*5 (Updated, SG issue 64 of 2008, Art. 21) ТС\*6 |
| 6 | Metal products (seamless pipes, rolled products, forgings,castings), lifting equipment, gas equipment and installations, boilers, pressure vessels, pipelines and tanks - base metal and welded joints - non-destructive testing. | On new and/or in use/operation facilities/products | Type and size of surface imperfections/imperfections by visual inspection method | БДС EN ISO17637;БДС EN 1370; БДС EN 13018; РПК-НК - Р 10.2.6. | БДС EN ISO 5817;БДС EN ISO 6520-1. ИКМОТСЕСКТT\*1-НЕК-1996 ИПЕРСВЦРОСЕ\*2-НЕК - 1995НУБЕПРГСИУПГ\*3 (Updated, SG issue 67 of 2004, Art.9)НУБЕТНГСИВВГ\*4 (Updated, SG issue 82 of 2004, Art.105)НУБЕТСПН\*5 (Updated, SG issue 64 of 2008 , Art. 19 andArt. 21) ТС\*6 |
| 7 | Metal products (seamless pipes, rolled products, forgings,castings), lifting equipment, gas equipment and installations, boilers, pressure vessels, pipelines and tanks - base metal and welded joints - non-destructive testing. | On new and/or in use/operation facilities/products | Brinell, Rockwell and Vickers hardness measurement by the Lieb`s method | ASTM А956 РПК-НК - Р 10.2.7 | ИКМОТСЕСКTT\*1-НЕК-1996 ИПЕРСВЦРОСЕ\*2-НЕК-1995ТС\*6 |
| 8 | Metal products (seamless pipes, rolled products, forgings,castings), lifting equipment, gas equipment and installations, boilers, pressure vessels, pipelines and tanks - base metal and welded joints - non-destructive testing. | On new and/or in use/operation facilities/products | Measurement of linear dimensions (ovality). | ИКМОТСЕСКТT\*1 -HEK-1996 РПК-НК - Р 10.2.8. | ИКМОТСЕСКТT\*1-НЕК-1996 ТС\*6 |

\* *The introduction of a new version of standards/documents or standards/documents that replace them is permitted. Up-to-date list of standards/documents with their dated versions shall be provided by the CAB.*

ИКМОТСЕСКТТ - Instruction for metal inspection and technical condition assessment of boiler, turbine and piping elements and systems in TPP (NEC, 1996);

ИПЕРСВЦРОСЕ - Instruction for the acceptance, operation and repair of steel vertical, cylindrical tanks with a volume of 100 to 10000 m3 for the power system (NEC - 1995);

НУБЕТНСПН - Regulation adopted by the Decree of the Council of Ministers No. 164 “Regulation on the design, safe operation and technical supervision of pressure equipment” (SG, issue No. 64/2008);

НУБЕПРГСИУПГ - Regulation adopted by the Decree of the Council of Ministers No. 171 “Regulation on the design and safe operation of gas transmission and distribution pipelines and of natural gas facilities, installations and appliances” (SG, issue No. 67/2004);

НУБЕТНГСИВВГ - Regulation adopted by the Decree of the Council of Ministers No. 243 “Regulation on the design, safe operation and technical supervision of gas facilities and installations for liquefied hydrocarbon gases” (SG, issue No. 82/2004);

TS – Technical Specification of the customer.