**SCOPE 274 ОКС**

**Inspection Body of type C**

**at KCM AD, Plovdiv**

**Management and office address:**

4009 Plovdiv, Asenovgradsko Shose Blvd., Industrial Zone

**To perform inspection of:**

| **Type of the scope:** *Fixed* |
| --- |
| **№** | **Field of Inspection** | **Type of Inspection** | **Parameter of Inspection / Characteristic** | **Test and Measurement Methods Used During Inspection, Inspection Procedure** | **Regulations, Standards, Specifications, Schemes** |
| **1** | **2** | **3** | **4** | **5** | **6** |
| 1. | Electrical installations and equipment up to 1000V | Of new ones and/or such in operation | Circuit breakers for currents of zero sequenceContact voltage;Shutdown time;Tripping current. | ЕТЛ ПК 7.1.1-1 Ver.03/ 18.10.2019ЕТЛ РИ 6.2.3-1Ver.01/ 20.02.2013 | Ordinance № 3 (SG № 90/2004 and 91/2004, Amend. SG № 42/ 09.06.2015)Ordinance № 16-116 (SG № 26/07.03.2008, Amend. SG № 42/ 09.06.2015); TS. |
| Impedance of the phase-protective conductor circuit | ЕТЛ ПК 7.1.1-2 Ver.03/ 18.10.2019ЕТЛ РИ 6.2.3-1Ver.01/ 20.02.2013 | Ordinance № 3 SG № 90/2004 Ordinance № 3 (SG № 90/2004 and 91/2004, Amend. SG № 42/ 09.06.2015)Ordinance № 16-116 (SG № 26/07.03.2008, Amend. SG № 42/ 09.06.2015) TS. |
| 2. | Electrical installations and equipment up to and above 1000V | Of new ones and/or such in operation | Protective earthing systemsGrounding resistanceContinuity of protective conductors | ЕТЛ ПК 7.1.1-3 Ver.04/ 05.06.2020ЕТЛ ПК 7.1.2-1 Ver.04/ 05.06.2020ЕТЛ РИ 6.2.3-1Ver.01/ 20.02.2013 | Ordinance № 3 (SG № 90/2004 and 91/2004, Amend. SG № 42/ 09.06.2015)Ordinance № 16-116 (SG № 26/07.03.2008, Amend. SG № 42/ 09.06.2015), НИЕМС-1995 (Standards for testing electrical machinery and equipment); TS. |
| Lighting protection earthing systems:Grounding resistanceContinuity of protective conductors | ЕТЛ ПК 7.1.1-4 Ver.04/ 05.06.2020ЕТЛ ПК 7.1.2-2 Ver.04/ 05.06.2020ЕТЛ РИ 6.2.3-1Ver.01/ 20.02.2013 | Ordinance № 4 (SG № 6/18.01.2011),Ordinance № 3 (SG № 90/2004 and 91/2004, Amend. SG № 42/ 09.06.2015)Ordinance № 16-116 (SG № 26/07.03.2008, Amend. SG № 42/ 09.06.2015); TS. |
| Insulation resistance | НИЕМСЕТЛ ПК 7.1.1-5 Ver.03/ 18.10.2019ЕТЛ ПК 7.1.2-3 Ver.03/ 18.10.2019ЕТЛ РИ 6.2.3-1Ver.01/ 20.02.2013 | Ordinance № 3 (SG № 90/2004 and 91/2004, Amend. SG № 42/ 09.06.2015.)Ordinance № 16-116 (SG № 26/07.03.2008, Amend. SG № 42/ 09.06.2015.) НИЕМС-1995; TS. |
| 3. | Electrical installations and equipment above 1000VTesting of cables with nominal voltage up to 20kV | Of new ones and/or such in operation | Insulation by increased DC voltage;Leakage current | НИЕМСЕТЛ ПК 7.1.2-1 Ver.03/ 18.10.2019ЕТЛ РИ 6.2.3-3Ver.01/ 20.02.2013 | Ordinance № 3 (SG № 90/2004 and 91/2004, Amend. SG № 42/ 09.06.2015)Ordinance № 16-116 (SG № 26/07.03.2008, Amend. SG № 42/ 09.06.2015) TS. |
| 4. | Electrical protective equipment:Isolating rods, operational and measuring ones;Isolating rods, complete with portable earthing switchesDielectric glovesDielectric boots | Products in operationProducts in operation | Electrical strength of insulation by AC voltageElectrical strength of insulation by AC voltageElectrical strength of insulation by leakage current | Ordinance № 22 SG № 45/2006.ЕТЛ ПК 7.1.3 Ver.02/ 18.10.2019ЕТЛ РИ 6.2.3-4Ver.01/ 20.02.2013Ordinance № 22 SG № 45/2006.ЕТЛ ПК 7.1.3 Ver.02/ 18.10.2019ЕТЛ РИ 6.2.3-4Ver.01/ 20.02.2013 | Ordinance № 22 SG № 45/2006.Ordinance № 22 SG № 45/2006. |
| Voltage indicators above 1 kV | Products in operation | Electrical strength of insulation by AC voltage;Voltage indication threshold | Ordinance № 22 SG № 45/2006.ЕТЛ ПК 7.1.3 Ver.02/ 18.10.2019ЕТЛ РИ 6.2.3-4Ver.01/ 20.02.2013 | Ordinance № 22 SG № 45/2006. |

**References:**

Ordinance № 3 (SG № 90/2004 and 91/2004, amend. SG № 42/ 09.06.2015) on the design of electrical installations and power lines;

Ordinance № 16-116 (SG № 26/07.03.2008, amend. SG № 42/ 09.06.2015) on the technical operation of energy equipment;

Ordinance № 4 (SG № 6/18.01.2011) on the lighting protection of buildings, exterior equipment and outdoor spaces;

Ordinance № 22 (SG № 45/2006) on the testing of electrical protective equipment in operation;

НИЕМС – 1995: Standards for the testing of electrical machinery and equipment-1995 of the Power Energy Committee;

TS – Technical Specification.