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| <b>General Inspection plan</b><br><br>Title<br><b>Metal Encapsulated switchgear and controlgear</b><br><b>[Switchgear, Rated voltage &gt; 1 kV]</b> | Document<br><b>KBE IP – 118.2</b> |
|                                                                                                                                                     | Issue<br><b>2</b>                 |
|                                                                                                                                                     | Date<br><b>2020-04-20</b>         |
|                                                                                                                                                     | Supersedes<br><b>Issue 1</b>      |

| Inspection according to codes below                                                                                    |                                                                                                                 |                                                                                                                     |                                                                                                       |                   |                         |
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| <u>Inspection Specification</u><br>(1st letter)<br>A: Routine 100% Insp.<br>S: Sample Inspection<br>T: Type Inspection | <u>Inspection performed and documented by</u><br>(2nd letter)<br>E: Manufacturer<br>D: Supplier<br>B: Purchaser | <u>Inspection supervised by</u><br>(3rd letter)<br>B: Purchaser<br>C: Inspector engaged by purchaser<br>D: Supplier | <u>Documentation</u><br>(4th letter)<br>R: Technical Report<br>P: Inspection Record<br>I: Certificate |                   |                         |
| Examination Procedures                                                                                                 |                                                                                                                 | Codes                                                                                                               | Inspection Procedure                                                                                  | Inspection Record | Deviation Report/Remark |
| Type Inspection                                                                                                        |                                                                                                                 |                                                                                                                     |                                                                                                       |                   |                         |
| T1                                                                                                                     | Temperature rise test<br>Note 1                                                                                 | TE-R                                                                                                                |                                                                                                       |                   |                         |
| T2                                                                                                                     | Dielectric strength test<br>Note 1                                                                              | TE-R                                                                                                                |                                                                                                       |                   |                         |
| T3                                                                                                                     | Impulse voltage test<br>Note 1                                                                                  | TE-R                                                                                                                |                                                                                                       |                   |                         |
| T4                                                                                                                     | Short circuit test<br>Note 1                                                                                    | TE-R                                                                                                                |                                                                                                       |                   |                         |
| T5                                                                                                                     | Protective earth continuity test<br>KBE EP-150                                                                  | TE-R                                                                                                                |                                                                                                       |                   |                         |
| T6                                                                                                                     | Mechanical functions test<br>Note 1                                                                             | TE-R                                                                                                                |                                                                                                       |                   |                         |
| T7                                                                                                                     | Enclosure protection Class<br>Note 1                                                                            | TE-R                                                                                                                |                                                                                                       |                   |                         |
| T8                                                                                                                     | Creepage and air-gap distances<br>Note 1                                                                        | TE-R                                                                                                                |                                                                                                       |                   |                         |
| T9                                                                                                                     | Test of making and breaking capacity<br>Note 1                                                                  | TE-R                                                                                                                |                                                                                                       |                   |                         |
| T10                                                                                                                    | Arc-over test<br>Note 1                                                                                         | TEBR                                                                                                                |                                                                                                       |                   |                         |
| T11                                                                                                                    | Seismic Qualification<br>KBE EP-147                                                                             | TEBR                                                                                                                |                                                                                                       |                   |                         |
| T12                                                                                                                    | Type Inspection certification<br>KBE EP-180                                                                     | TE-I                                                                                                                |                                                                                                       |                   |                         |
| T13                                                                                                                    |                                                                                                                 |                                                                                                                     |                                                                                                       |                   |                         |
| T14                                                                                                                    |                                                                                                                 |                                                                                                                     |                                                                                                       |                   |                         |
| Notes                                                                                                                  |                                                                                                                 |                                                                                                                     |                                                                                                       |                   |                         |
| 1. Test according to IEC 62271-200.                                                                                    |                                                                                                                 |                                                                                                                     |                                                                                                       |                   |                         |

| Examination Procedures                                                                                                                                                                                  |                                                                  | Codes | Inspection Procedure | Inspection Record | Deviation Report/Remark |
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| <b>Routine Inspection</b>                                                                                                                                                                               |                                                                  |       |                      |                   |                         |
| R1                                                                                                                                                                                                      | Visual inspection<br>KBE EP-101                                  | AE-BP |                      |                   |                         |
| R2                                                                                                                                                                                                      | Visual inspection<br>KBE EP-190                                  | AE-P  |                      |                   |                         |
| R3                                                                                                                                                                                                      | Voltage Testing<br>Note 1                                        | AE-P  |                      |                   |                         |
| R4                                                                                                                                                                                                      | Protective earth continuity test<br>KBE EP-150                   | AE-P  |                      |                   |                         |
| R5                                                                                                                                                                                                      | Mechanical operation test<br>Note 1                              | AE-P  |                      |                   |                         |
| R6                                                                                                                                                                                                      | Verification of correct wiring<br>Note 1                         | AE-P  |                      |                   |                         |
| R7                                                                                                                                                                                                      | Surface finish inspection<br>KBE EP-148                          | AE-P  |                      |                   |                         |
| R8                                                                                                                                                                                                      | Test of auxiliary devices<br>Note 1                              | AE-P  |                      |                   |                         |
| R9                                                                                                                                                                                                      | Test of earthing switches and hand-<br>hold devices<br>Note 1, 2 | AE-P  |                      |                   |                         |
| R10                                                                                                                                                                                                     | Test of interchangeability<br>Note 1                             | AE-P  |                      |                   |                         |
| R11                                                                                                                                                                                                     | Measurement of breaking and<br>making time<br>Note 1             | AE-P  |                      |                   |                         |
| R12                                                                                                                                                                                                     | Delivery Release Inspection<br>Note 3                            | AE-BP |                      |                   |                         |
| R13                                                                                                                                                                                                     | Quality and identity certification<br>KBE EP-180                 | AE-I  |                      |                   |                         |
| R14                                                                                                                                                                                                     |                                                                  |       |                      |                   |                         |
| R15                                                                                                                                                                                                     |                                                                  |       |                      |                   |                         |
| R16                                                                                                                                                                                                     |                                                                  |       |                      |                   |                         |
| R17                                                                                                                                                                                                     |                                                                  |       |                      |                   |                         |
| <b>Notes</b><br>1. Test according to IEC 62271-200.<br>2. Test according to applicable standard.<br>3. Inspection witnessed by Purchaser before Delivery (Shipping) Release in accordance with KBE 100. |                                                                  |       |                      |                   |                         |