**COLLECTION OF IECEx / ExTAG DECISIONS**

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| **Standard:**  IEC 60079-7:2015  IEC 60079-7:2006 | **Clauses:**  6.4 & 7.3  6.4 & 7.3 | Draft Decision Sheet:  ExTAG/634/CD |
| **Subject:**  Testing of Current Transformers    **Status of document:**  **Approved** | **Key words:**   * **Current Transformer** * **Instrument Transformer** | **Date: 2021 02 18**  **Originator of proposal:** SGS Baseefa  **TC/SC involved: TC31 MT 60079-7** |
| **Background:**  1. There may be doubt about the application of parts of test clause 6.4 to Ex ec current transformers as the calling clause 5.4.3 in IEC 60079-7:2015 specifically limits the first part of clause 6.4 to Level of protection Ex eb, without calling for the test in the last paragraph of 6.4.  2. The inter-turn overvoltage test is not found in the reference standard IEC 60044-6, but is found in IEC 60044-1. However, both these standards were superseded some considerable time ago and the relevant test is currently in IEC 61869-2:2012. It is noted that TC38 decided to restructure the whole set of stand-alone Standards in the IEC 60044-X series and transform it into a new set of standards composed of General Requirements Documents and Specific Requirements Documents.  **Questions:**  1. Does any part of clause 6.4 apply to current transformers with Level of Protection Ex ec?  2. What is the correct reference for the inter-turn overvoltage test of clause 6.4 and the routine inter-turn test of clause 7.3?  **Answers:**  1. None of clause 6.4 applies to current transformers with Level of Protection Ex ec. All of clause 6.4 applies to current transformers with Level of Protection Ex eb, including the final paragraph which is not specifically referenced in clause 5.4.3.  The text was transferred directly from IEC 60079-7:2006. Equivalent text did not appear in IEC 60079-15:2010. The list of changes published in IEC 60079-7:2015 did not indicate that the clause should now be applied to Ex ec current transformers.  2. IEC 60044-1 and IEC 60044-6 have both been superseded by IEC 61869-2. The enhanced inter-turn insulation test of 5.4.3 and the routine inter-turn test of 7.3 should be performed in accordance with IEC 61869-2, using the method of Procedure A currently outlined in clause 7.3.204 of Edition 1, published in 2012.  Note: In their response to the draft Decision Sheet, MT 60079-7 indicated that the contents of this DS would be used to inform appropriate changes in IEC 60079-7 Edition 6. | | |