**INTERNATIONAL ELECTROTECHNICAL COMMISSION (IEC) SYSTEM FOR CERTIFICATION TO STANDARDS RELATING TO EQUIPMENT FOR USE IN EXPLOSIVE ATMOSPHERES (IECEx SYSTEM)**

**Title: ExTAG/634/CD – Draft ExTAG Decision Sheet -** **Testing of Current Transformers**

**Circulated to: ExTAG – IECEx Testing and Assessment Group**

**INTRODUCTION**

This document, *ExTAG/634/CD* *Draft ExTAG Decision Sheet -* *Testing of Current Transformers*

has been prepared by SGS Baseefa for consideration by ExTAG.

In accordance with OD 035 this document is issued for a six week comment period.

Please submit comments on this new Draft DS using the comments table, a separate document, by –

**2020 12 31**

to

[**Christine Kane**](mailto:christine.kane@iecex.com)

ExTAG Secretariat

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**COLLECTION OF IECEx / ExTAG DECISIONS**

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| **Standard:**  IEC 60070-7:2015  IEC 60079-7:2006 | **Clauses:**  6.4  6.4 | Draft Decision Sheet:  ExTAG/ |
| **Subject:**  Testing of Current Transformers    **Status of document:**  **Draft** | **Key words:**   * **Current Transformer** * **Instrument Transformer** | **Date: 2020 11 17**  **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) 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 However, both these standards were superseded some considerable time ago and the relevant test is currently in IEC 61869-2:2012.  **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?  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 interturn insulation test should be performed in accordance with IEC 61869-2, using the method currently outlined in clause 7.3.204 of Edition 1, published in 2012. | | |