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

**Title****: ExTAG/722/CD Draft ExTAG Decision Sheet - Applicability of IEC 60079-0 for non-electrical equipment**

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

**INTRODUCTION**

This document, ExTAG/722/CD, *Draft ExTAG Decision Sheet Applicability of IEC 60079-0 for non-electrical equipment* has been prepared by NEPSI, CN, is issued 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 –

**2024 06 27**

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

**ExTAG Secretariat**

|  |  |
| --- | --- |
| **Address:**  **Level 17, Angel Place**  **123 Pitt Street**  **Sydney NSW 2000**  **Australia** | **Contact Details:**  **Tel: +61 2 46 28 4690**  **Fax: +61 2 46 27 5285**  **e-mail: info@iecex.com**  [**http://www.iecex.com**](http://www.iecex.com) |

IEC System for certification to standards relating to equipment for use in Explosive Atmospheres (IECEx System)

Collection of IECEx / ExTAG Decision, F-014

|  |  |  |
| --- | --- | --- |
| Standard:  ISO 80079-36:2016 Ed.1.0  ISO 80079-37:2016 Ed.1.0  IEC 60079-0: 2011 Ed.6.0  IEC 60079-0: 2017 Ed.7.0 | Clause:  Chapter 1  Chapter 1  All relevant  All relevant | Date:  2024-05-08 |
| Subject:  Applicability of IEC 60079-0 for non-electrical equipment | Key words:   * Applicability * IEC 60079-0 * Non-electrical equipment | Originator of proposal:  NEPSI CN |
| Status of document:  Draft | TC/SC involved:  TC31/WG22 and SC31M/WG1 |
| Background:  Since the non-electrical equipment introduced into IECEx certification, there have been about 800 IECEx Certificates issued for non-electrical or electrical/non-electrical combined equipment by more than 40 ExCBs. It was noted that the reference standards used for issuance of IECEx Certificates and ExTRs are not consistent between ExCBs. Some certificates and its corresponding ExTRs included with compliance with IEC 60079-0, while others did not.  The applicability of IEC 60079-0 for non-electrical equipment has been clearly given in Chapter 1 of ISO 80079-36:2016 Ed.1.0:  *This standard supplements and modifies the general requirements of IEC 60079-0, as shown in Table 1 (Applicability of specific clauses of IEC 60079-0:2011 Ed.6.0). Where a requirement of this standard conflicts with a requirement of IEC 60079-0, as far as applicable for non-electrical equipment, the requirement of this standard takes precedence.*  The Chapter 1 of ISO 80079-37:2016 Ed.1.0 also states its relationship with ISO 8009-36:2016 Ed.1.0 as follows:  *This standard supplements and modifies the requirements in ISO 80079-36. Where a requirement of this standard conflicts with the requirement of ISO 80079-36 the requirement of this standard takes precedence.*  In addition, even the general requirements given in the current edition of IEC 60079-0:2017 (Ed.7.0) are also applicable to non-electrical equipment and components.  It seems necessary to clarify whether IEC 60079-0 is required to be used for issuing IECEx Certificates and ExTRs to non-electrical equipment and components. | | |
| Question:  Does IEC 60079-0 apply for testing and certification of non-electrical equipment and components? | | |
| Answer:  Yes, IEC 60079-0 is applicable for testing and certification of non-electrical equipment and components according to Table 1 under Chapter 1 of ISO 80079-36:2016 Ed.1.0.  Additional information:   1. If the non-electrical equipment or component is just related to using the specific technical concepts of Ex d, Ex p and Ex t, then the standards IEC 60079-0, ISO 80079-36 and the relevant part(s) of IEC 60079 series technical standards (for example, IEC 60079-1 if Ex d concept is adopted by the non-electrical equipment or component) should be used for testing and certification. 2. If the non-electrical equipment or component is just related to using the specific technical concepts of Ex c, Ex b and Ex k, then the standards IEC 60079-0, ISO 80079-36 and ISO 80079-37 should be used for testing and certification.   This DS is applicable to all certifications issued after publication of the DS, including new revisions of all existing certificates if relevant. | | |