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

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

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

**INTRODUCTION**

This revised version, ExTAG/722A/CD, Draft ExTAG Decision Sheet Applicability of IEC 60079-0 for non-electrical equipment, has been prepared by the Originator NEPSI, CN taking into account comments received on ExTAG/722/CD, and contained in ExTAG/725/CC Compilation of Comments on ExTAG/722/CD – Draft ExTAG Decision Sheet - Applicability of IEC 60079-0 for non-electrical equipment.

This document is issued for consideration by ExTAG during the ExTAG Brazil Meeting.

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**ExTAG Secretariat**

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

Collection of IECEx / ExTAG Decision, F-014

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| 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:  2024-07-17 |
| Subject:  Applicability of IEC 60079-0 for non-electrical equipment | Key words:  - Applicability  - IEC 60079-0  - Non-electrical equipment  - Testing and assessment | 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 1,000 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 indicated the compliance of 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 Ex Equipment and Ex Components.  It seems necessary to clarify whether IEC 60079-0 is required to be used for testing and assessment of non-electrical Ex Equipment and Ex Components. | | |
| Question:  Does IEC 60079-0 apply for testing and assessment of non-electrical Ex Equipment and Ex Components? | | |
| Answer:  Yes, IEC 60079-0 is applicable for testing and assessment of non-electrical Ex Equipment and Ex Components according to Table 1 under Chapter 1 of ISO 80079-36:2016 Ed.1.0.  NOTE 1 Issuing this DS is a compromise solution for immediately ensuring bodies are aware of the application of IEC 60079-0 for non-electrical Ex Equipment and Ex Components, and it could then be withdrawn once IECEx OD 280 is revised and issued with the clarity.  NOTE 2 The IECEx OD 280 is under revision, which will further clarify the issues of how the testing and assessment results that meet the relevant requirements of IEC 60079-0 are reflected in ExTR and whether IEC 60079-0 needs to be listed on the certificate.  This DS is applicable to all certifications issued after publication of the DS, including new revisions of all existing certificates if relevant. | | |