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

**Title****: Initial Draft Proposal using F 014 for a draft DS on the topic of “Application of IEC 60079-0 to both Non-electrical Equipment only as well as combined electrical/non-electrical equipment”**

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

**INTRODUCTION**

This document, prepared by NEPSI and is issued as a preliminary Draft Decision Sheet and is issued for initial consideration and discussion during the 2023 ExTAG Edinburgh meeting.

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| **Address:**  **IECEx Secretariat**  **Level 33 Australia Square**  **264 George Street**  **Sydney NSW 2000**  **Australia**  **Web:** [**www.iecex.com**](file:///C:\Users\christine.kane\AppData\Local\Microsoft\Windows\Temporary%20Internet%20Files\christine.kane\AppData\Local\Microsoft\Windows\christine.kane\AppData\Local\Microsoft\Windows\Temporary%20Internet%20Files\Content.Outlook\AppData\Local\Users\horn02\AppData\Local\christine.kane\AppData\Local\Microsoft\christine.kane\AppData\Local\Microsoft\Windows\Temporary%20Internet%20Files\Christine.Kane\AppData\Local\Microsoft\Windows\Temporary%20Internet%20Files\AppData\Local\jugauthier\AppData\Local\Temp\notesC9812B\www.iecex.com) |

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

Collection of IECEx / ExTAG Decision Form, 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 | Clause:  Chapter 1  Chapter 1 | Date:  16 September 2023 |
| 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: |
| Background:  Since the non-electrical equipment introduced into IECEx certification, there have been about 650 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.*  It seems necessary to clarify whether IEC 60079-0:2011 Ed.6.0 is necessary to be used for issuing IECEx Certificates and ExTRs to non-electrical or electrical/non-electrical combined equipment. | | |
| Question:  Does IEC 60079-0 apply for testing and certification of non-electrical and electrical/non-electrical combined equipment? | | |
| Answer:  Yes, IEC 60079-0:2011 Ed.6.0 is applicable for testing and certification of non-electrical and electrical/non-electrical combined equipment according to Table 1 under Chapter 1 of ISO 80079-36:2016 Ed.1.0.  Additional information:   1. If the non-electrical equipment is just relating to the specific technical concepts of Ex d, Ex p and Ex t, then the standards IEC 60079-0:2011 Ed.6.0, ISO 80079-36:2016 Ed 1.0 and the relevant part(s) of IEC 60079 series standards (for example, IEC 60079-1 if Ex d concept is adopted by the non-electrical equipment) should be used for testing and certification. 2. If the non-electrical equipment is just relating to the specific technical concepts of Ex c, Ex b and Ex k, then the standards IEC 60079-0:2011 Ed.6.0, ISO 80079-36:2016 Ed 1.0 and ISO 80079-37:2016 Ed.1.0 should be used for testing and certification. | | |

NOTE: The following should be noted when developing ExTAG Decision Sheets:

* The development process should be in compliance with IECEx OD 035.
* The purpose for development of ExTAG Decision Sheets is to unify the application of the Standards used in the IECEx System and is not intended to modify or "interpret" Standards.