INTERNATIONAL ELECTROTECHNICAL COMMISSION

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IEC 60079-11
Edition 6.0 2011-06

EXPLOSIVE ATMOSPHERES –

Part 11: Equipment protection by intrinsic safety "i"

INTERPRETATION SHEET 5

This interpretation sheet has been prepared by subcommittee 31G: Intrinsically-safe apparatus, of IEC technical committee 31: Equipment for explosive atmospheres.

The text of this interpretation sheet is based on the following documents:

DISH	Report on voting
31G/306/DISH	31G/308/RVDISH

Full information on the voting for the approval of this interpretation sheet can be found in the report on voting indicated in the above table.

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BACKGROUND

As stated in the scope of Edition 6 of IEC 60079-11 (2011), the standard supplements and modifies the general requirements of IEC 60079-0. Subsequent to the publication of Edition 6 of IEC 60079-11, IEC 60079-0 was revised. The revised version of IEC 60079-0 (Edition 7:2017) now contains the 200 mm dust blanketing temperature test for Group III Da equipment (Subclause 5.3.2.3.1), relocated from IEC 60079-18 and IEC 60079-31.

QUESTIONS

1) Does the alternative approach of IEC 60079-11:2011 for equipment with components dissipating less power than given in Table 4 and with continuous short-circuit current less than 250 mA still apply when assessing according to IEC 60079-0:2017?
2) Is it necessary to conduct the 200 mm dust blanket temperature testing of Group III EPL Da intrinsically safe apparatus when applying IEC 60079-0:2017 in situations where the power limits of IEC 60079-11:2011 Table 4 are exceeded?

IEC 60079-11:2011-06/ISH5:2019-08(en)

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