



31G/306/DISH

DRAFT INTERPRETATION SHEET (DISH)

PROJECT NUMBER:
IEC 60079-11/ISH1 ED6

DATE OF CIRCULATION:
2019-06-28

CLOSING DATE FOR VOTING:
2019-08-09

IEC SC 31G : INTRINSICALLY-SAFE APPARATUS

SECRETARIAT:
United Kingdom

SECRETARY:
Mr Nicholas Ludlam

OF INTEREST TO THE FOLLOWING COMMITTEES:

FUNCTIONS CONCERNED:

EMC

ENVIRONMENT

QUALITY ASSURANCE

SAFETY

TITLE:

Interpretation Sheet 5 - Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

NOTE FROM TC/SC OFFICERS:

This subject was discussed at the SC31G MT 60079-11 meeting in Waldenburg DE on 2019-04-02

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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/XX/DISH	31G/XX/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.

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?

ANSWER

- 1) Yes. The requirement of IEC 60079-0 is modified by the requirement of IEC 60079-11 and the requirements of IEC 60079-11 take precedence over IEC 60079-0.
- 2) Yes.