IECEX AND ATEX PRODUCT CERTIFICATION

SGS can deliver a full certification package covering all types of explosion protection for both gas and dust hazards.

PRODUCT CERTIFICATION SCHEME

SGS is the leading internationally recognised certification body for explosion protected equipment, delivering IECEx and ATEX certification to customers around the globe.

TYPE EXAMINATION

This relates to the comparison of the design specification of a product against the requirements of a standard specification. It will include a physical examination of a sample and the performance of any tests which may be necessary. The results are recorded in a report. (For more detail see our publication BAS-PS-004.)

PRODUCT VERIFICATION

Each individual manufactured product is compared against the standard or design specification. This is achieved by SGS Baseefa carrying out a physical examination and possibly the performance of tests when the standard calls for routine tests. (For more information see our publication BAS-PS-005.)

PRODUCT QUALITY ASSURANCE

This is the comparison of a manufacturer's quality management system against the relevant general requirements in the ISO 9000 series of standards. It also covers the more specific requirements of a quality system standard for particular products (ISO/IEC 80079-34), backed by a system of regular auditing and surveillance of samples.

A Quality Assurance Notification (ATEX QAN), or Quality Assurance Report (IECEx QAR) is a time-limited document, subject to renewal at defined dates, dependent on continuing audit and surveillance. (For more information see our publication BAS-PS-006.)

ELECTRICAL PROTECTION

Ex d - Flameproof

Exp-Pressurised

Ex e - Increased Safety

Ex i - Intrinsic Safety

Ex q - Powder Filled

Ex o - Oil Filled

Ex n - Non Sparking

Ex m - Encapsulation

Ext - Protection by Enclosure Dust

Ex op - Optical Radiation

NON-ELECTRICAL PROTECTION

Ex h - generic identification of nonelectrical protection, incorporating:

c - Constructional Safety

b - Control of Ignition Sources

k - Liquid Immersion

Ex d, Ex p and Ex t may also be used as protection for non-electrical equipment



Images supplied by Cooper MEDC and Hawke International

FOR MORE INFORMATION CONTACT:

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Ex d, Ex o and Ex p: Mark Wilson

Ex e, Ex q, Ex m, Ex n, Ex t and Non-**Electrical Protection: David Brearley**

Ex i, Ex op: Maurice Powney







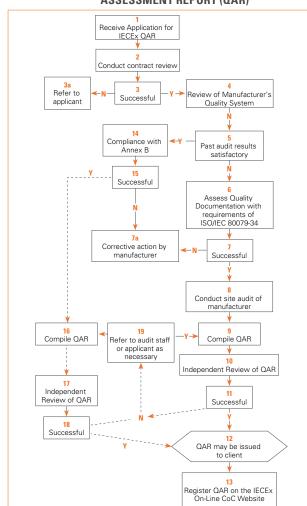




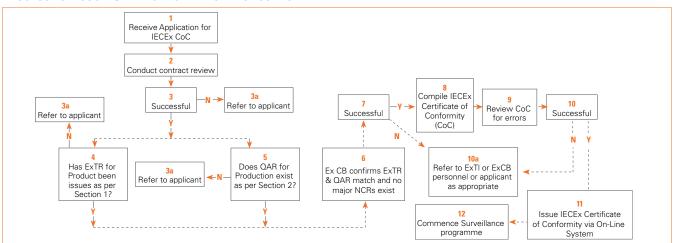
PROCESS FOR ISSUING IECEX TEST AND ASSESSMENT REPORT (EXTR)

Receive Application for ExTR Conduct contract review Refer to applicant Develop test plan 5a Ensure compliance Previously tested with Annex A Obtain samples and Successful onduct test/assessmen Refer to the Applicant Successful ŲΥ Compile ExTR Review of ExTR by ExCB 10a Refer to ExTL **₩** ¥ IECEx Test Report (ExTR) may be issued to applicant Register ExTR on the IECEx On-Line CoC Website

PROCESS FOR ISSUING IECEX QUALITY ASSESSMENT REPORT (QAR)



PROCESS FOR ISSUING AN IECEX CERTIFICATE OF CONFORMITY



Note: For added detail of each stage in the flowcharts, please refer to IECEx Operational Document OD 009 available at http://www.iecex.com/operational.htm.

