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IECQ 03-3-2

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IECQ PUBLICATION

IEC Quality Assessment System for Electronic Components (IECQ System)

Rules of procedure –

Part 3-2: IECQ approved component products, related materials & assemblies scheme – IECQ approved component - automotive qualification programme (IECQ AC-AQP)

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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FOREWORD

This publication has been prepared by the IECQ Management Committee (IECQ MC) of the IEC Quality Assessment System for Electronic Components (IECQ System).

This publication is directly related to the IECQ System management basic rules contained in publications (IEC CA 01 + IECQ 01-S), IEC harmonized basic rules (IEC CA 01) plus the IECQ supplement (IECQ 01-S) and publication IECQ 03-3 containing the rules of procedure for the IECQ approved component scheme. This edition 3.0 of IECQ 03-3-2 presents the requirements of the IECQ automotive qualification programme being an integral part of the IECQ approved component scheme applicable to products, related materials & assemblies dedicated to the automotive sector.

IECQ 03-3-2 is to be read in conjunction with IECQ 03-3.

This third edition cancels and replaces the edition 2.1. Main changes with respect to the previous edition include:

- remove withdrawn standard
- add two new reference standards used for guidance in developing sample plans
- fix misaligned paragraph numbering
- add definition for supplier's declaration of conformity (SDoC)
- amend Clause 6 b) to harmonize the term supplier's declaration of conformity (SDoC) and refer to the requirements of Annex D
- update Annex C for the development of specification process
- update Annex D to harmonize with the attestation (declaration) of conformity principles utilized within the IECQ AC scheme

The text of this publication is based on the following documents:

Document	Report on MC consultation
IECQ MC/428/CA	MC/441/RM

Full information on the approval by the IECQ MC of this publication can be found in the report indicated in the above table.

**Rules of procedure –
Part 3-2: IECQ approved component products,
related materials & assemblies scheme –
IECQ approved component - automotive qualification programme
(IECQ AC-AQP)**

1 Scope

1.1 General

This publication contains the rules of procedure of the automotive qualification programme of the IECQ System, hereinafter referred to as the "rules", for the approved component - automotive qualification programme (IECQ AC-AQP or IECQ AQP).

These IECQ approved component - automotive qualification programme rules of procedure provide the requirements specific to this category of the IECQ approved component scheme and are to be used in conjunction with applicable IECQ System management basic rules (IEC CA 01 + IECQ 01-S), general rules of procedure (IECQ 03-1), approved component scheme rules of procedure (IECQ 03-3) and operational documents (ODs) as listed in Clause 2.

The IECQ approved component - automotive qualification programme covers electronic components and associated materials & assemblies (including modules) for use within automotive and other high reliability applications.

In the event of conflict between the provisions of these rules of procedure and any other requirements contained in referenced normative documents, the requirements of these rules of procedure shall apply.

1.2 Application

The automotive qualification programme is intended for use by:

- manufacturers, suppliers, repairers, and maintainers of products to develop processes for the testing and release of conforming automotive electronics that they manufacture, service and purchase, in order to assure their capability of product reliability testing, inspection and the quality of their products
- customers (their clients), users may utilize this IECQ AC-AQP to verify whether the characteristics covering both safety and performance, reliability and quality of products purchased are in compliance with the stated technical specification(s) and applicable quality standard(s) for automotive industry

The requirements of this programme are in addition to those contained within IATF 16949 and/or ISO 9001.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. The IECQ Management Committee (MC) shall decide the timetable for the introduction of revised editions of the documents. For undated references, the latest edition of the referenced document (including any amendments) applies.

The IECQ System management basic rules and rules of procedure prescribed in the following documentation shall be used for the IECQ AC-AQP assessments where applicable.

IEC CA 01, *IEC Conformity Assessment Systems – Basic Rules*

IECQ 01-S, *IECQ Supplement to Harmonized Basic Rules IEC CA 01*

IECQ 02, *General Requirements for the Acceptance of IECQ Certification Bodies into the IECQ System*

IECQ 03-1, *General Requirements for all IECQ Schemes*

IECQ 03-2, *IECQ Rules of Procedure – Part 2: IECQ Approved Process Scheme*

IECQ 03-3, *IECQ Rules of Procedure – Part 3: IECQ Approved Component Products, Related Materials & Assemblies Scheme*

IECQ OD 010, *Qualification Criteria for Assessors and Lead Assessors according to IECQ (third-party assessment)*

ISO 9001, *Quality management systems – Requirements*

IATF 16949, *Automotive Quality Management System Standard – Quality management system requirements for automotive production and relevant service parts organisations*

AEC Q100, *Failure Mechanism Based Stress Test Qualification For Integrated Circuits*

AEC Q101, *Failure Mechanism Based Stress Test Qualification For Discrete Semiconductors*

AEC Q102, *Failure Mechanism Based Stress Test Qualification For Discrete Optoelectronic Semiconductors in Automotive Applications*

AEC Q104, *Failure Mechanism Based Stress Test Qualification For Multichip Modules (MCM) In Automotive Applications*

AEC Q200, *Stress Test Qualification For Passive Components*

In the event of conflict between the provisions of this document and any other directly or indirectly referenced provisions, the provisions of this document shall take precedence.