

APPLICANTS AND MANUFACTURERS GUIDANCE

# **EMIRATES CONFORMITY ASSESSMENT SCHEME (ECAS): RESTRICTION OF HAZARDOUS SUBSTANCES (ROHS)**

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# EXECUTIVE SUMMARY

In an effort to enhance environmental conservation measures, the Government of the United Arab Emirates (U.A.E.) has introduced mandatory regulatory controls on Electrical Electronic Equipment (EEE) being placed onto the market under Federal Law No. 10/2017, Control of Hazardous Materials in Electrical and Electronic Equipment. This new technical regulation is to be introduced under the mandatory regulatory program, 'Emirates Conformity Assessment System' (ECAS). The program is to be overseen and managed by the sole appointed regulatory body, 'Emirates Standards & Metrology Authority' (ESMA) and enforced from 01 January 2018.

This technical regulation has been aptly called 'ECAS RoHS,' which consequently identifies the same substances and restriction levels as EU RoHS, the main difference being the conformity assessment approach under ISO/IEC 17067, which identifies a Type 1 and Type 3 option.

The ECAS program for ECAS RoHS mandates a conformity assessment process to IEC Standards as a means of supporting and meeting requirements of the regulation. The conformity assessment process based on meeting IEC63000 gives manufacturers a two-option approach based on a Type 1 and Type 3 system of conformity assessment approach.

Intertek as an accredited Notified Body (NB 0007) is a leading global expert in and provider of assurance, testing, inspection, and certification services with a network of laboratories and local country offices worldwide, Intertek has prepared the following guidance document on the U.A.E.'s ECAS program relative to ECAS RoHS to assist manufacturers/importers/agents who import Electrical Electronic Equipment into the United Arab Emirates in understanding and complying with U.A.E. mandatory regulatory conformity assessment requirements for RoHS-impacted products. This document includes coverage of compliance obligations, the certification process, requirements for meeting the mandatory ECAS requirements for placement of EEE onto the Emirates market, and the penalties associated with non-compliance. By understanding these critical elements as well as how Intertek can fully support the entire certification process, manufacturers/importers/agents will be better positioned for long-term success relative to their sales and marketing activities within the U.A.E. region.



# U.A.E. ROHS

## Objective

The United Arab Emirates shall take all appropriate measures to ensure EEE placed on the market or put into service is constructed in accordance with good engineering practices to ensure restricted materials (if present) are below the prescribed limits detailed in this Technical Regulation.

## Scope

The U.A.E. RoHS regulation covers all EEE (Electrical and Electronic Equipment) as detailed in Table 1 of Annex 1.

## Definitions

- EEE (Electrical and Electronic Equipment) means equipment which is dependent on electric currents or electromagnetic fields in order to work properly and equipment for the generation, transfer, and measurement of such currents and fields and designed for use with a voltage rating not exceeding 1000 volts for alternating current and 1500 volts for direct current.
- Product (s): Any device listed in Annex (1) of cabinet Order No: 10 which is attached to this resolution, which is operated using electrical power or electromagnetic field and designed to work with a voltage that does not exceed 1000 Volts for alternating current and 1500 Volts for direct current.
- Dependent means, with regard to EEE, needing electric currents or electromagnetic fields to fulfil at least one intended function.

## IMPLEMENTATION GUIDELINES FOR ROHS

### Table 1. Extract from U.A.E. RoHS - Implementation Guidelines for RoHS – Restriction of Hazardous Substances – Decision No. 10 of 2017

1. Large household appliances
2. Small household appliances
3. IT and Telecommunication equipment
4. Consumer equipment
5. Lighting equipment
6. Electrical and electronic tools (with the exception of large-scale stationary industrial tools)
7. Toys leisure and sport equipment
8. Medical devices (with the exception of all implanted and infected products)
9. Monitoring and control instruments including industrial monitoring and control instrument
10. Automatic dispensers
11. Other EEE not covered by any of the categories above or, and falling within the definition of Article 1

## DEFINITION OF TERMS

- **ECAS** – Emirates Conformity Assessment Scheme.
- **ESMA** – The Emirates Authority for Standardization and Metrology; UAE standards body as mandated by Federal Law No. 28. The sole government authority body responsible for implementing ECAS requirements.
- **ECAS Certificate of Conformity** – a certificate of conformity is issued to the product complying to a relevant UAE Standard/s or ESMA-recognized national, regional, or international standards.
- **Emirates Quality Mark (EQM)** – quality mark granted by ESMA indicating the given product complies with the requirements in the approved standards.
- **Mark** – any illustration, symbol, stamp, engraving, or picture appearing on the product which indicates that the product complies with requirements of the standard issued by ESMA or international standards body.
- **Product/s** – any equipment, system, or part which is included in the list of regulated products under this regulation.
- **Supplier** – the manufacturer, importer, including storage operator, wholesale and retail, and any other relevant processes or professionals in the supply chain who may impact the product, or any representative.
- **Conformity Assessment** – any activity to determine directly or indirectly that a process, product, or service meets relevant standards or regulation and fulfils all relevant requirements.
- **Recognized Conformity Assessment Body** – a competent body recognized by ESMA to carry out factory inspection and/or product testing.
- **Approved Standard** – product standard approved by ESMA to be used in verifying conformity of a product.
- **Conformity Certificate** – A certificate issued by a Notified Body to a product ensuring the product complies with scheme requirements.
- **IECEX** – internationally recognized scheme of approving products used for potentially explosive atmospheres.
- **ExCB** – certification body recognized by the IECEX Scheme.
- **IECEX Approved Testing Laboratory** – testing facility recognized under the IECEX Scheme.
- **ExTR** – a test report issued by an IECEX Approved Testing Laboratory.

**ANNEX 1 – TABLE 1 (PRODUCT CATEGORIES 1-11)**

No.	Categories	Types
1	Large household appliances	<ul style="list-style-type: none"> <li>• Large cooling appliances</li> <li>• Refrigerators</li> <li>• Freezers</li> <li>• Other large appliances used for refrigeration, conservation and storage of food</li> <li>• Washing machines</li> <li>• Clothes dryers</li> <li>• Dish washing machines</li> <li>• Cooking</li> <li>• Electric stoves</li> <li>• Electric hot plates</li> <li>• Microwaves</li> <li>• Other large appliances used for cooking and other processing of food</li> <li>• Electric heating appliances</li> <li>• Electric radiators</li> <li>• Other large appliances for heating rooms, beds, seating furniture</li> <li>• Electric fans</li> <li>• Air conditioner appliances</li> <li>• Other fanning, exhaust ventilation and conditioning equipment</li> </ul>
2	Small household appliances	<ul style="list-style-type: none"> <li>• Vacuum cleaners</li> <li>• Carpet sweepers</li> <li>• Other appliances for cleaning</li> <li>• Appliances used for sewing, knitting, weaving and other processing for textiles, irons, and other appliances for ironing, mangling and other care of clothing</li> <li>• Toasters</li> <li>• Fryers</li> <li>• Grinders, coffee machines and equipment for opening or sealing containers or packages</li> <li>• Electric knives</li> <li>• Appliances for hair-cutting, hair drying, tooth brushing, shaving, massage and other body care appliances</li> <li>• Clocks, watches and equipment for the purpose of measuring, indicating or registering time</li> <li>• Scales</li> </ul>
3	IT and telecommunication equipment	<p><b>Centralized Data Processing:</b></p> <ul style="list-style-type: none"> <li>• Mainframes</li> <li>• Minicomputers</li> <li>• Printer units</li> </ul> <p><b>Personal Computing:</b></p> <ul style="list-style-type: none"> <li>• Personal computers (CPU, mouse, screen and keyboard included)</li> <li>• Laptop computers (CPU, mouse, screen and keyboard included)</li> <li>• Notebook computers</li> <li>• Notepad computers</li> <li>• Printers</li> </ul>

	<ul style="list-style-type: none"> <li>• Copying equipment</li> <li>• Electrical and electronic typewriters</li> <li>• Pocket and desk calculators</li> <li>• Other products and equipment for the collection, storage, processing, presentation or communication of information by electronic means user terminals and systems</li> <li>• Facsimile</li> <li>• Telex</li> <li>• Telephones</li> <li>• Pay telephones</li> <li>• Cordless telephones</li> <li>• Cellular telephones</li> <li>• Answering systems</li> <li>• Other products or equipment of transmitting sound, images or other information by telecommunications</li> </ul>
<p><b>4 Consumer equipment</b></p>	<ul style="list-style-type: none"> <li>• Radio sets</li> <li>• Television sets</li> <li>• Video cameras</li> <li>• Video recorders</li> <li>• Hi-fi recorders</li> <li>• Audio amplifiers</li> <li>• Musical instruments</li> <li>• Other products or equipment for the purpose of recording or reproducing sound or images, including signals or other technologies for the distribution of sound and image than by telecommunications</li> </ul>
<p><b>5 Lighting equipment</b></p>	<ul style="list-style-type: none"> <li>• Luminaires for fluorescent lamps with the exception of luminaires in households</li> <li>• Straight fluorescent lamps</li> <li>• Compact fluorescent lamps</li> <li>• High intensity discharge lamps, including pressure sodium lamps and metal halide lamps</li> <li>• Low pressure sodium lamps</li> <li>• Other lighting or equipment for the purpose of spreading or controlling light with the exception of filament bulbs</li> </ul>
<p><b>6 Electrical and electronic tools (with the exception of large-scale stationary industrial tools)</b></p>	<ul style="list-style-type: none"> <li>• Drills</li> <li>• Saws</li> <li>• Sewing machines</li> <li>• Equipment for turning, milling, sanding, grinding, sawing, cutting, shearing, drilling, making holes, punching, folding, bending or similar processing of wood, metal and other materials</li> <li>• Tools for riveting, nailing or screwing or removing rivets, nails, screws or similar uses tools for welding, soldering or similar use</li> <li>• Equipment for spraying, spreading, dispersing or other treatment of liquid or gaseous substances by other means</li> <li>• Tools for mowing or other gardening activities</li> </ul>
<p><b>7 Toys leisure and sport equipment</b></p>	<ul style="list-style-type: none"> <li>• Electric trains or car racing sets</li> <li>• Hand-held video game consoles</li> <li>• Video games</li> <li>• Computers for biking, diving, running and rowing</li> </ul>

		<ul style="list-style-type: none"> <li>• Sports equipment with electric or electronic components coin slot machines</li> </ul>
8	<b>Medical devices (with the exception of all implanted and infected products)</b>	<ul style="list-style-type: none"> <li>• Radiotherapy equipment</li> <li>• Cardiology</li> <li>• Dialysis</li> <li>• Pulmonary ventilators</li> <li>• Nuclear medicine</li> <li>• Laboratory equipment for in-vitro diagnosis</li> <li>• Analyzers</li> <li>• Freezers</li> <li>• Fertilization tests</li> <li>• Other appliances for detecting, preventing, monitoring, treating, alleviating, illness, injury or disability</li> </ul>
9	<b>Monitoring and control instruments including industrial monitoring and control instrument</b>	<ul style="list-style-type: none"> <li>• Smoke detector</li> <li>• Health regulators</li> <li>• Thermostats</li> <li>• Measuring, weighing or adjusting appliances for household or laboratory equipment</li> <li>• Other monitoring and control instruments used in industrial installations (for example, in control panels)</li> </ul>
10	<b>Automatic dispensers</b>	<ul style="list-style-type: none"> <li>• Automatic dispensers for hot drinks</li> <li>• Automatic dispensers for hot or cold bottles or cans</li> <li>• Automatic dispensers for solid products</li> <li>• Automatic dispensers for money</li> <li>• All appliances which deliver automatically all kinds of products</li> </ul>
11	<b>Other EEE not covered by any of the categories above or, and falling within the definition of Article one</b>	

<b>RESTRICTED SUBSTANCES LIMITS: ANNEX 2 OF CABINET ORDER NO 10:</b>	
<b>Substance</b>	<b>Restriction Limit</b>
<b>Initial Substances</b>	
Lead (Pb)	0.1%wtg / 1000 ppm
Mercury (Hg)	0.1%wtg / 1000 ppm
Hexavalent Chromium (Cr6+)	0.1%wtg / 1000 ppm
Cadmium (Cd)	0.01%wtg / 100 ppm
Polybrominated biphenyl ethers (PBDE)	0.1%wtg / 1000 ppm
Polybrominated biphenyls (PBB)	0.1%wtg / 1000 ppm
<b>Phthalates to be Added</b>	
Bis (2-ethyhexyl) phthalate (DEHP)	0.1%wtg / 1000 ppm
Butyl benzyl phthalate (BBP)	0.1%wtg / 1000 ppm
Dibutyl phthalate (DBP)	0.1%wtg / 1000 ppm
Diisobutyl phthalate (DIBP)	0.1%wtg / 1000 ppm

**EXEMPTED MATERIALS AND THEIR APPLICATIONS SUBSTANCE LIMIT EXEMPTIONS**  
 Refer to ANNEX 3 OF CABINET ORDER NO 10

**EXEMPTED MATERIALS AND THEIR APPLICATIONS SUBSTANCE LIMIT EXEMPTIONS**  
 Refer to ANNEX 4 OF CABINET ORDER NO 10

**EQUIPMENT CATEGORIES EXEMPT**  
 Refer to ANNEX 5 OF CABINET ORDER NO 10

<b>CONFORMITY ASSESSMENT – MANDATORY STANDARDS: (ANNEX 6 OF CABINET ORDER NO 10):</b>	
<b>Standard</b>	<b>Title of Standard</b>
IEC/TR 62476:2010	Guidance for the evaluation of products with respect to substance-use restrictions in electrical and electronic products
IEC 63000:2016	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances
IEC 62474:2012	Material Declaration for products of and for the electrotechnical industry
IEC TR 62474:2015	Material Declaration for products of and for the electrotechnical industry – Part 1: Guidance for the implementation of IEC 62474
IEC 62321-1:2013	Determination of certain substances in electrotechnical products – Part 1: Introduction and Overview
IEC 62321-2:2013	Determination of certain substance in electrotechnical products – Part 2: Disassembly, disjointment and mechanical sample preparation
IEC 62321-3-1:2013	Determination of certain substance in electrotechnical products – Part 3-1: Screening – Lead, mercury, cadmium, total chromium and total bromin by X-ray fluorescence spectrometry
IEC 62321-3-2:2013	Determination of certain substance in electrotechnical products – Part 3-2: Screening – Total bromin in polymers and electronics by Combustion – Ion Chromatography
IEC 62321-4:2017	Determination of certain substance in electrotechnical products – Part 4: Mercury in polymers, metals and electronics by CV-AAS, CV-AFS, ICP-OES and ICP-MS
IEC 62321-5:2013	Determination of certain substance in electrotechnical products – Part 5: Cadmium, lead and chromium in polymers and electronics and cadmium and lead in metals by AAS, AFS, ICP-OES, and ICP-MS
IEC 62321-6:2015	Determination of certain substance in electrotechnical products – Part 6: Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatography – mass spectrometry (GC-MS)



IEC 62321-7-1:2015	Determination of certain substance in electrotechnical products – Part 7-1: Hexavalent Chromium – Presence of hexavalent chromium (Cr(VI)) in colourless and coloured corrosion-protected coatings on metals by the colorimetric method
IEC 62321-7-2:2017	Determination of certain substance in electrotechnical products – Part 7-2: Hexavalent Chromium – Determination of hexavalent chromium (Cr(VI)) in polymers and electronics by the colorimetric method
IEC 62321-8:2017	Determination of certain substance in electrotechnical products – Part 8: Phthalates in polymers by gas chromatography-mass spectrometry (GC-MS), gas chromatography-mass spectrometry using a pyrolyzer/thermal desorption accessory (Py/TD-GC-MS)

RESTRICTIONS SCHEDULE FOR – Cd, Pb, CR6+, PBB, and PBDE (ANNEX 7)		
Group	Products	Date of Restriction
A	<ul style="list-style-type: none"> <li>Medical Devices</li> <li>Medical Devices for diagnosis tests</li> <li>Control and Monitor Equipment</li> <li>Industrial Control and Monitor Equipment</li> </ul>	1 January 2020
B	<ul style="list-style-type: none"> <li>Cables and spare parts of products mentioned in group (A) which are available in the market</li> </ul>	1 January 2020
C	<ul style="list-style-type: none"> <li>The products included in this Resolution, except for the group (A), products and cables and spare parts for product repairing, updating or upgrading purposes, excluding the products of class (11) of Annex No. (1)</li> </ul>	1 January 2018
D	<ul style="list-style-type: none"> <li>Products of class (11) of Annex No. (1) which are available in the market</li> </ul>	1 January 2020

RESTRICTIONS SCHEDULE FOR – DBP, DEHP, BBP, and DIBP (ANNEX 8)		
Group	Products	Date of Restriction
A	<ul style="list-style-type: none"> <li>Medical Devices</li> <li>Medical Devices for diagnosis tests</li> <li>Control and Monitor Equipment</li> <li>Industrial Control and Monitor Equipment</li> </ul>	1 January 2022
B	<ul style="list-style-type: none"> <li>Cables and spare parts of products mentioned in group (A) which are available in the market</li> </ul>	1 January 2022
C	<ul style="list-style-type: none"> <li>The products included in this Resolution, except for the group (A), products and cables and spare parts for product repairing, updating or upgrading purposes, excluding the products of class (11) of Annex No. (1)</li> </ul>	1 January 2020
D	<ul style="list-style-type: none"> <li>Products of class (11) of Annex No. (1) which are available in the market</li> </ul>	1 January 2020

# ROHS REGULATIONS FOR EEE

ECAS Technical Regulations for EEE detail a risk-based approach and obligations for economic operators to meet product (material) requirements of a conformity assessment process.

The articles which form the ECAS RoHS Technical Regulation and product conformity process guidance follows that identical route taken by European authorities, which is based on a risk-based process, except that under the ECAS RoHS program the conformity assessment process is undertaken and verified by a 3rd Party Notified Body who will then in turn certify product conformity.

- a. Product (Materials) conformity assessment is achieved by meeting the requirements of the normative reference standards listed within the Technical Regulation for ECAS RoHS, Cabinet Order No:10.

## Manufacturers Risk Assessment – IEC 62321

TABLE B.1 – PROBABILITY OF THE PRESENCE OF CERTAIN SUBSTANCES IN MATERIALS AND COMPONENTS USED IN ELECTROTECHNICAL PRODUCTS								
Components and materials	Certain Substances <sup>a</sup>						Number of homogeneous materials <sup>b</sup>	Remarks
	Hg	Cd	Pb	Cr (VI)	PBBs	PBDEs		
<b>Mechanical parts</b>								
Framework – metal							1	Unpainted
Housing – plastic	L	L	L	L	L	M	1	
Power cord/cable	L	H	H	L	L	M	>1	
Thick film sensor	L	H	M	L	L	M	>1	
Heat sink	L	L	L	L	N/A	N/A	1	
Screw, washer, fastener – metal	L	M	M	H	N/A	N/A	1 and >1	Some are coated e.g. black and yellow chromate
Glass – CRT, lamp glass-to-metal seal	L	M	H	L	N/A	N/A	>1	Pb in glass could be exempted
Phosphorescent coating (e.g., CRT)	L	H	L	L	N/A	N/A	>1	
LCD panel/screen	H	L	H	H	L	L	>1	
Plasma panel/screen	H	L	H	H	L	L	>1	Pb in glass could be exempted
Lamps, back light	H	L	H	M	N/A	N/A	>1	Hg used in backlights could be exempted
Magnetic head	L	L	H	M	N/A	N/A	>1	

- a. The outputs from the manufacturer’s risk assessment (identification of risk levels in respect to homogenous material layers) are incorporated into a materials control plan so as to define materials (component level) control measures and acceptance levels of material declarations from the supply chain, IEC 62476 refers (Supplier Declarations of Conformity levels of material information – Risk level of Declaration of Conformity Grouping 1 – 3).
- b. The implemented Material Control Measures (Control Plan) is to meet the requirements of IEC 63000. (Technical Documentation requirements for the assessment of EEE in respect to restricted hazardous materials).
- c. For verification of high-level risk components, it is expected that these components are subject to Product Verification Testing using test methodologies outlined in the IEC 62321 series standards.
- d. Upon meeting the ECAS requirements, the manufacturer will draw up a Declaration of Conformity as well as, if applicable, an Importer Declaration of Conformity.
- e. Product application and registration is conducted by an ESMA-appointed Notified Body on the applicant submitting an application; on successful conformity assessment the Notified Body shall issue a Certificate of Conformity, valid for one year under Option 1 or 3 years under option 2 Conformity Assessment Approach.

**Role of the Manufacturer/Importer**

The manufacturer/importer is obliged to ensure that the presented Type product is manufactured accordingly and, once placed onto the market, meets the requirements of the ECAS RoHS Technical Regulation.

The Manufacturer/Importer shall:

- Establish Technical Documentation (Technical File) for each model or range of product
- Draw up a Manufacturers/Importers Declaration of Conformity
- Be or contract a registered authorised agent (Importers Certificate of Registration in the U.A.E.)
- Specify address of the place of manufacture and storage of the product

**Applied Standards**

- IEC 63000:2016: Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.
- IEC 62474: Material Declaration for Products of and for the Electrotechnical Industry
- IEC TR 62476:2010 Guidance for evaluation of product with respect to substance-use restrictions in electrical and electronic products
- IEC 62321-1:2013 Determination of certain substances in Electrotechnical products

**DOCUMENT REQUIREMENTS FOR CERTIFICATION APPLICATION – ECAS ROHS**

Applicants are required to submit a Technical File that represents the product and shall contain the following documents:

- Manufacturer’s/Importers Declaration of Conformity
- Valid importers registration Certificate
- Bill of Materials
- Manufacturers risk assessment
- Supplier materials declaration of conformity (component level)
- Accredited ISO / IEC 17025 Test Reports (materials analytical testing) no older than 3 years from the date of issue.
- **Note: Manufacturers non-accredited test data is accepted up till 31 Dec 2018)**

# ECAS ROHS CONFORMITY ASSESSMENT PROCESS

## Option 1:

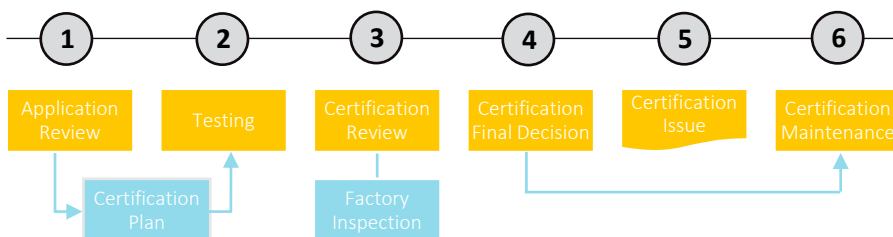
1. •Applicant submits Technical File, including Risk Assessment and supporting material declaration documents to be submitted in case where the full product assessment for RoHS is not completed
2. •Applicant draws up a Declaration of Conformity (DOC) including all critical components
3. •A RoHS test report for three (3) identified high risk critical components
4. •The Notified Body on evaluation of the Technical File verifies compliance to the set limits
5. •Notified Body issues Certificate of Conformity - valid for one year

## Option 2:

1. •Applicant draws up Declaration of Conformity (DOC)
2. •Applicant submits application, including risk assessment and documents based on IEC63000 and IEC62476 standards to a ESMA Notified Body
3. •Notified Body conducts a Factory technical audit and verification of materials control measures - issues factory inspection report (IEC63000)
4. •Notified Body verifies compliance to requirements and issue the certificate of conformity - valid for three years

Figure 1.0: Intertek’s test/certification process for Issuance of ECAS Certificate of Conformity for option 1 and option 2

Fig 1.0: Intertek Internal Certification Process Flow – ISO / IEC 17065



## Language & Storage Guidelines

The Technical Documentation must be drawn up in the Arabic language; if this is not possible, documents in English can be submitted after the approval of the Competent National Authorities in the U.A.E. Additionally, the manufacturer must keep the Technical Documentation at the disposal of the Competent National Authorities for 10 years after the electrical equipment has been placed on the market.

## Product Registration Procedure

- **9.1** Product shall be registered after a full confirmation that the product is complying with the requirements of the relevant IEC or UAE Standard and by this Specific Requirement.
- **9.2** Where the results of test showed that product is not complying with the requirements, the client needs to rectify the observed non-compliances and can reapply once rectification is made.
- **9.3** An ECAS Certificate of Conformity shall be issued to the product upon the fulfilment of all the requirements.
- **9.4** The Notified Body shall upload and register the issued certificate of conformity onto the ESMA Registered Product Certificate Database.

## Certification Critical Workflow – ISO/IEC 17065, Clause 7

The certification process to be followed by the Intertek Notified Bodies will be in line with the work flow as described under Clause 7, ISO/IEC 17065 in that five principle (5) steps will be undertaken:

- **Quotation** (Based upon customer requirements and supplied information)
- **Certification Application Review** (Review of application and produce Certification Plan)
- **Evaluation** (Testing conducted in accordance with ISO/IEC 17025)
- **Certification Review** (Technical Review of Test Reports and Technical File)
- **Final Decision** (Grant of Certification, update of ESMA Registration Database, issuance of ESMA/ECAS registration number)

## Intertek Acceptance of Third Party Test Reports

Intertek will accept third party test reports providing that the following conditions are met:

1. The report is issued by an ISO/IEC 17025 ILAC signatory
2. The report is not older than 3 years from the date of issue
3. The reference standards used within the third-party report are IEC/IEC CB standard that on review is deemed valid by the Notified Body and covers the national requirements defined within ECAS Regulation for RoHS
4. The reference standards used have not a date of withdrawal within one (1) year

## ECAS Certificate of Conformity

Upon satisfactory completion of the Testing and Certification or sole Certification program, Intertek shall issue to the customer the ECAS Certificate of Conformity, which authorizes the applicant to apply and use the Conformity Mark.

## Certificate Modification and Renewal Process

On a design modification to the product such as a component change, the addition of an alternative component, the addition of new models to the existing certificate, or a change in the manufacturing process which affects conformity of the product, the manufacturer shall in all cases contact the issuing Notified Body. Per that process, the product shall in all cases

## FURTHER INFORMATION

Intertek ECAS Notified Body & supporting Certification Body Locations:

ECAS Notified Body:

### Intertek International Ltd Dubai Branch

Millennium Plaza Tower, 14th & 15th Floors

Sheikh Zayed Road

P.O. Box 26290

Dubai, U.A.E.

Tel: +971 (4) 3178777

Fax: +971 (4) 3316883

For ECAS programs - other country office contact information:

### Europe, the Middle East, and Africa

<http://www.intertek.com/contact/ema/>

### North and South America

<http://www.intertek.com/contact/americas/northandsouthamerica/>

### Asia Pacific

<http://www.intertek.com/contact/asiapacific/>

undergo a Certification Review and Certification Decision to determine that requirements are met.

Per the requirements of the ECAS Program, Intertek shall contact the Client prior to the one (1) year ECAS validity expiry date to verify and confirm that Certificate Renewal is required. The product and Technical File shall undergo an evaluation and technical review to ensure that the requirements are still being met.

**Conformity shall be verified by:**

- If no technical changes to the reference standard(s) that affect the product are noted, ECAS Certificate of Conformity shall be issued – (e.g., new certificate, ECAS registration database updated, etc.)
- If technical changes to ECAS Certificate of Conformity are identified either through a design change or due to technical changes in the reference standard(s), the product may well be required to be submitted for either full or limited scope of testing
- ECAS Certificates of Conformity not required beyond the one (1) year validity date shall be withdrawn and the ECAS registration database updated

**ECAS Conformity Marking**

The license to use the ECAS Mark of Conformity (ECAS Mark) is given to companies manufacturing certified products. Below are examples of the ECAS mark to be affixed to certified product. The numerals indicate which Notified Body authorised the use of the mark. The Intertek Notified Body unique reference number is NB-0007.



**Conformity Marking Enforcement Timelines**

Activity	Enforcement Dates
Enforcement of affixing of ECAS Conformity Mark	01 March 2018
Market Surveillance check for correctly-marked certified products	01 March 2018
Self-adhesive labels on Certified Products placed in U.A.E. market	Until December 31, 2018
Enforcement of Printed ECAS Mark (no separate adhesive labels permitted)	January 1, 2019

**Misuse of the ECAS Certificate of Conformity/ECAS Conformity Mark/Emirates Quality Mark and Penalties for Non-Compliance**

Intertek reserves the right to suspend and/or terminate certification based on misuse of the ECAS Mark in the case of, but not limited to:

- Non-payment of fees
- Altering or defacing the issued Certificate of Conformity

- Placing onto the market a model which has not been ECAS approved and bears the ECAS Mark
- Placement of non-conforming product onto the market
- Product identified by market surveillance as non-conforming
- Product found to be non-conforming on submittal to a Notified Body for verification of conformity

**Note:** Full terms can be found in the Certification Agreement; these terms are accepted upon signing of the Certification Application Form

### Technical File Maintenance

Intertek recognizes that changes to a product or manufacturing process can happen at any time. However, the applicant is advised that if design changes are made which warrant document updates, Intertek should be advised, as this makes the technical file review in relation to the product build much easier when carrying out a certificate renewal or when conducting subsequent technical reviews.

### CHALLENGES FOR MANUFACTURERS

Manufacturers/importers/agents within the electrical/electronic industry who import Electrical Electronic Equipment and Devices into the United Arab Emirates are currently experiencing a market/regulatory transition – from requirements to lower their products’ energy consumption levels to achieve greater energy efficiency to regulations enforcing the use of more environmentally-friendly materials in tandem with numerous new testing procedures to certify compliance. All of these changes will consume R&D and engineering talent, involve the dedication of additional time and resources as well as potential investments in product redesign, and require attention to new testing procedures in order to ensure product compliance by the specific dates. Manufacturers/importers/agents may need to source new materials, pursue new safety certifications, reassess their entire manufacturing process, and re-test units – all potentially time-consuming and tedious processes required to ensure that their product is compliant by the specified deadlines.

As part of a proactive response to these industry dynamics, manufacturers/importers/agents are encouraged to plan for the changes by understanding the new standards and procedures required by regulatory bodies, how they apply to their products, and whether their products do or don’t comply. As such, manufacturers are encouraged to be proactive to help ensure a smooth, accurate, and executable transition to the new standards/regulations as well as to plan out the necessary redesign and/or certification activities they’ll need to undertake to ensure their product’s compliance and ability to be placed in the U.A.E. market.

### INSPECTION AND MARKET MONITORING

- EEE are being inspected at Port of Entry. Only consignments having valid ECAS RoHS Certificate of Conformity are allowed to enter the country.
- Consignment without the ECAS Certificate of Conformity can be held in quarantine. Ports and Customs authority shall coordinate with ESMA whenever a consignment without ECAS certificated is observed. Appropriate action shall then be taken by both ESMA and the Ports and Customs Authorities.
- Products manufactured in U.A.E. are monitored in the factory, warehouses, and in retail shops. Only products with ECAS Registration are allowed to be traded in the U.A.E.

- Registered products being delivered to U.A.E. shall be inspected to ensure continuous compliance. ESMA reserves the right to inspect and conduct inspection of the product being distributed in the market. ESMA shall conduct a regular monitoring of product where ESMA shall take samples either at the retail shops or the manufacturer’s warehouse for independent testing. The result of test shall be the basis whether to continue or stop the registration of the product.
- ESMA also reserves the right to conduct factory inspection at any time to ensure full compliance of the product. Among other things, the factory inspection shall include the process and product verification of the product and the manner in which the product is carefully inspected and handled.
- All fees related to market sampling and testing shall be paid by the manufacturer/supplier.

**Fees**

Detailed on Application

**THE CRITICAL ROLE OF THIRD PARTY QUALITY ASSURANCE**

In the changing U.A.E. market for low voltage products, the ability for a manufacturer/importer/agent to certify that its products comply with all relevant ECAS standards helps meet corporate sales targets and assures end users that those products comply with performance, safety, and energy standards and are qualified for specific end-use applications. Because specific standards and submission procedures can be very tedious and precise to administer but are highly critical to a company’s growth and sales objectives, manufacturers/importers/agents are advised to avail themselves of a skilled third-party testing organization with expertise in the standards-setting, testing, and compliance processes to ensure maximum success.

Accredited third-party safety and performance testing organizations like Intertek can help take the guess-work out of the all-important process of testing and the pursuit and successful achievement of compliance. Intertek’s possession of and investment in the highest-tech and most precise and capital-intensive testing equipment ensures consistent testing procedures and accurate results, while their demonstrated expertise in the unique details and current requirements of all industry certification programs and initiatives globally assures manufacturers/importers/agents of the utmost in quality coverage and representation. Along with the relationships they’ve established with all of the industry’s key certifying organizations over the years, Intertek’s exceptional understanding of and experience with the broad range of products, industries, standards, and testing procedures worldwide can proactively support a manufacturer’s compliance while delivering security and peace of mind to both manufacturers and customers alike.

**MARKET ACCESS TO THE UAE THROUGH ECAS AND EQM**

The ECAS program scope includes multiple industry sectors from Electrical, Electronic, and Gas Appliances, Machinery, Automotive, Building and Construction, Cosmetics, and Food in the form of issued technical regulations, under the ECAS banner and regulated by the appointed government body, Emirates Authority for Standardization and Metrology (ESMA).

Intertek has been appointed in the UAE as a Notified Body for for Low Voltage Equipment (LVE), Energy Efficiency Standards Labelling (EESL), lighting regulation, regulation for restriction of hazardous substances (RoHS) and equipment used in explosive atmospheres (ECAS Ex), Cosmetics, Perfumery and Personal Care Products (TR UAE GSO 1943) and is authorised to issue the mandatory Certificate of Conformity and/or Quality Mark on behalf of ESMA.

Visit our [website](#) to download guidance documents on the following ECAS regulations:

- Low Voltage Equipment (LVE)
- Energy Efficiency Standards Labelling (EESL)
- Lighting Regulation
- UAE Regulation for Restriction of Hazardous Substances (RoHS)
- ECAS Ex (Regulation of equipment used in Explosive Atmospheres)
- ECAS for Cosmetics and Perfumery Products

Intertek offers a variety of [Conformity Assessment Programmes](#) worldwide to ensure that products are fully tested in a recognised laboratory and a certificate issued before they are shipped to the client country.





TOTAL QUALITY. ASSURED.

Intertek is a leading Total Quality Assurance provider to industries worldwide. Our network of more than 1,000 laboratories and offices and over 43,000 people in more than 100 countries, delivers innovative and bespoke Assurance, Testing, Inspection and Certification solutions for our customers' operations and supply chains. Intertek Total Quality Assurance expertise, delivered consistently with precision, pace and passion, enabling our customers to power ahead safely.

#### FOR MORE INFORMATION



**AMERICAS**  
+1 800 967 5352 (WORLD LAB)  
+1 251 459 6173

**EUROPE**  
+44 1372 370900

**APAC**  
+852 2173 8888  
+86 400 886 9926  
+91 98710 92339



[icenter@intertek.com](mailto:icenter@intertek.com)



[intertek.com/ecas](https://intertek.com/ecas)

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