

APPLICANTS AND MANUFACTURERS GUIDANCE

EMIRATES CONFORMITY ASSESSMENT SCHEME (ECAS): LIGHTING PRODUCTS

intertek.com/ecas



CONTENTS

Executive Summary	3
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Conformity Assessment System for Lighting Products	4
Objectives	4
Definition of Terms	4
Scope: Products Covered by this Specific Requirement	4
Scope: Products Exempted from the Requirements	6
Technical Regulations for Lighting Equipment & Appliances	7
Conformity Process	8
Luminaire EE Labelling Requirements	9
<hr/>	
Manufacturer Responsibilities	10
Registration Procedure/Application, Technical File Submission	10
<hr/>	
Certification Process	12
Certification Critical Work Flow – ISO/IEC 17065	12
Language and Storage Guidelines: Regulated Products	13
Intertek Certification/Notified Body Locations	13
Intertek Acceptance of Third Party Test Reports	13
Intertek Acceptance of Third Party Certification	13
ECAS Conformity Marking	13
Conformity Marking Enforcement Timelines	14
Lighting Modification and Renewal Process	14
Misuse of the ECAS Certificate of Conformity/Emirates Quality Mark	14
Technical File Maintenance	15
<hr/>	
Challenges for Manufacturers	15
Inspection and Market Monitoring	15
Critical Role of Third Party Quality Assurance	16
About Intertek	17
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EXECUTIVE SUMMARY

The Government of the United Arab Emirates decreed that as a measure of protecting its citizens and property and implementing measures to control electrical equipment, sub-assemblies, or components to be installed in potentially explosive atmospheres (Electrical Equipment for Ex), it has taken the decision to introduce mandatory regulatory controls. In an effort to enhance safety, implement energy efficiency measures, and protect the environment, the Government of the United Arab Emirates (U.A.E.) introduced mandatory regulatory controls on specific product categories placed into the market. Specifically, in February 2016 the U.A.E. Government issued Cabinet Decision No 34 of 2013 VO, U.A.E. System for Lighting Products, which details new regulations to be introduced under the 'Emirates Conformity Assessment System' (ECAS), a program to be overseen and managed by the appointed regulatory body, the 'Emirates Standards & Metrology Authority' (ESMA). With the U.A.E.'s commitment to consumer safety, energy conservation, and environment protection, this regulation has been developed to ensure that lighting products are registered and monitored for their continuous compliance to set specifications covering:

- Electrical Safety
- Performance: Energy Efficiency
- Functionality
- Hazardous Chemicals
- Safe Disposal of Lighting Products

The ECAS Lighting program uses the Regulation, UAE/IEC Standards as a means of meeting conformity assessment needs for both safety, energy efficiency, functionality, and environmental regulatory requirements; a presumption of conformity is achieved by meeting the requirements of the standards specified within the Regulation. Conformity Assessment of the product is determined upon issuance of an ECAS Certificate of Conformity; if the applicant / importer manufacturer wishes to affix the Emirates Conformity Mark, the product is subjected to a factory inspection.

As a leading global expert in and provider of Assurance, Testing, Inspection, and Certification services with a network of laboratories and local country Certification Bodies worldwide, Intertek has prepared the following guidance document on the U.A.E. ECAS program relative to 'Lighting Products' to assist manufacturers/importers/agents who import Lighting Equipment and Devices into the United Arab Emirates in understanding and complying with the U.A.E.'s mandatory regulatory conformity assessment requirements for Lighting Products. This document includes coverage of compliance obligations, the certification process, requirements for meeting the mandatory ECAS requirements for placement of lighting equipment into the Emirates market, and the penalties associated with non-compliance. By understanding these critical elements as well as how Intertek can fully support the

end-to-end 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.



CONFORMITY ASSESSMENT SYSTEM FOR LIGHTING PRODUCTS

Technical regulations detailed within the ESMA document ('Conformity Assessment System for Lighting Products') define the criteria for product registration under the Emirates Conformity Assessment Scheme (ECAS) being implemented by the Emirates Authority for Standardization and Metrology (ESMA). The requirements defined in this document are issued for the information, guidance, and compliance of manufacturers and traders intending to promote and sell their products in the United Arab Emirates.

Objective

The United Arab Emirates shall take all appropriate measures to ensure that electrical equipment may be placed on the market or put into service only if, having been constructed in accordance with good engineering practices in safety matters prevailing in the International Community, it does not endanger the safety of persons, domestic animals, or property when properly installed and maintained and used in applications for which it was made.

These provisions constitute the essential requirements of the Emirate Conformity Assessment Scheme rules. Before being placed on the market or put into service, the electrical equipment must meet these requirements for Lighting equipment:

- **Technical Requirements** – The Lighting equipment shall be so constructed in accordance with good engineering practices concerning safety. The technical requirements of equipment meeting the safety, energy performance, and environmental standards and requirements specified in Lighting Regulation No:34. Standards, U.A.E. Standards. The principal elements of safety objectives that the electrical equipment must meet are listed in Annex I of this regulation.
- **Administrative Requirements** – Compulsory procedures and documents implemented by the manufacturer or his authorized representative are imposed by ESMA (e.g. conformity assessment procedures, marking on the product, technical files, declaration of conformity, and instructions for use).

Scope: Products Covered by this Specific Requirement

- This regulation covers non-directional lamps, luminaires, and control gear traded and used in U.A.E. that include the following:
 - Incandescent lamps $\geq 16W$ (watts)
 - Linear fluorescent lamps (*excluding energy efficiency and functionality requirements*); i.e. just safety is covered
 - Compact fluorescent lamps (CFLs)
 - Halogen lamps
 - Light emitting diode (LED) lamps
 - Control gears for general lighting purposes
 - Luminaires for general lighting purposes (*only Electrical Safety Requirements apply*)

General exemptions for lamps, luminaires, and control gear are as follows.

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.

Scope: Special Purpose Lamps are Exempted from the Requirements of this Regulation

(These lamps and LED modules are not excluded when they are marketed for general lighting purposes)

- Lamps and LED modules with a luminous flux of less than 30 lumens
- Lamps and LED modules marketed for operation with batteries
- Lamps and LED modules marketed as part of a luminaire and not intended to be removed by the end-user, except when they are offered for sale, hire or hire purchase or displayed separately to the end user, for example as spare parts.
- Lamps and LED modules marketed as part of a product whose primary purpose is not lighting. However, if they are offered for sale, hire or hire purchase or displayed separately, for example as spare parts, they shall be included within the scope of this Technical Regulation.
- Lamps and LED modules marketed for applications where their primary purpose is not lighting, such as:
 - Emission of light as an agent in chemical or biological processes (such as polymerization, photodynamic therapy, horticulture, pet care, anti-insect products)
 - Image capture and image projection (such as camera flashlights, photocopiers, video projectors)
 - Heating (such as infrared lamps)
 - Signalling (such as airfield lamps)
- Lamps for street lighting
- Lamps for swimming pools
- Pet care (aquarium, terrarium, etc.)
- Anti-insect lamps
- Disinfection
- Tanning
- Display optic lamps (< 12,000 lumens), such as:
 - Stage and studio lamps
 - Theatre lamps
 - Television (TV) lamps
 - Studio lamps
 - Photo lamps – Flashlights or lamps for the development of pictures
 - Projection lamps
- Heating lamps (infrared), such as:
 - Infrared heat lamps – comfort heating (outdoor and indoor)
 - Infrared heat lamps – industrial
 - Infrared heat lamps – animal rearing
 - Infrared heat lamps – health care
- Traffic/signal lamps, such as:
 - Signal lamps
 - Aviation/Aircraft lighting – for runways and planes, all exterior applications
 - Train lighting, including signal lighting
 - Water craft lighting, including signal lighting
 - Automotive lighting/lamps
- Household appliances, such as:
 - Oven lamps

- Refrigerator lamps
- Sewing machine lamps
- Others, such as:
 - Temperature and shock-proof lamps
 - Mirror lamps

The following luminaires are exempted from this regulation

- Emergency lighting luminaires and emergency sign luminaires
- Luminaires to be used in explosive atmospheres
- Luminaires that are designed to operate exclusively with the lamps and LED modules listed in B.1
- Luminaires in a medical surrounding, where light is needed to perform medical tasks
- Luminaires used as a part of machinery
- Luminaires used as a part of a toy
- Professional luminaires

The following control gears are exempted from this regulation

- Control gear for emergency lighting
- Control gear not meant for general lighting, when the intended use of the control gear is marked on the control gear

TECHNICAL REGULATIONS FOR LIGHTING EQUIPMENT & APPLIANCES (ESMA)

Suppliers shall comply with the following requirements.

Electrical Safety Requirements

- Compliance with the relevant U.A.E. Lighting Safety Standards referred to in Annex 6 of regulation No. 34 (www.esma.gov.ae/en-us/Services/Pages/Purchase-Standards.aspx)

Requirements for Energy Efficiency

- Compliance with the minimum energy efficiency values defined in Annex 2 of Cabinet Order No. 34
- Energy Efficiency classes and methods of calculating the energy efficiency index and energy consumption for lamps are stipulated in Annex 2 of this regulation.
- Control gears for fluorescent lamps shall comply with the Energy Efficiency Requirements specified in Annex 3 of this regulation.
- Linear Fluorescent Lamps, Lamps, and Control Gears for general lighting purposes are not subject to Energy Efficiency requirements, but Electrical Safety requirements only.

Functionality

Lamps covered by this regulation shall comply with the Functionality Requirements specified in Annex 5.

- Hazardous Chemicals
- Products specified in Annex 4, and Table 12 shall comply with the mercury content limits.
- Products covered by this Regulation shall comply with the hazardous chemicals limits in Table 13.
- Products listed in Annex 1 are not covered by the requirements of Table 13

Marking Requirements

- Instruction manuals and energy efficiency labels supplied with products shall include the Arabic language. Cautionary and/or any safety warnings for the direct user or consumer shall be in Arabic and English language.
- Products shall not contain any material or descriptive images or definitions which may be regarded as offensive to the Islamic Religion.
- For special purpose lamps, the following information shall be clearly and prominently indicated on their packaging and in all forms of product information accompanying the lamp, luminaire, and control gear when it is placed on the market:
 - Their intended purpose; and
 - That they are not suitable for household room illumination.

Product information requirements

- Information shall be visibly displayed prior to purchase to end-users on the packaging.
- Information should be available on internet and free access websites and which website to consult if necessary
- Products should have the following information:
 - Nominal lamp power;
 - Nominal luminous flux;
 - Nominal life time (in hours);
 - Number of switching cycles before premature lamp failure;
 - Color temperature;
 - Lamp mercury content as X,X mg (applicable only to lamps that contains mercury)
 - Information to be made publicly available on free-access websites
 - As a minimum, the following information shall be expressed at least as values:
 - The information specified in 3.5.2.1;
 - Rated wattage (0.1W precision);
 - Rated luminous flux;
 - Rated lamp life time;
 - Lamp power factor;
 - Lumen maintenance factor at the end of the nominal life;
 - Starting time (as X,X seconds);
 - Color rendering
 - Instructions on how to clean up the lamp debris in case of accidental lamp breakage (applicable only to lamp that contains mercury);
 - Recommendations on how to dispose of the lamp at its end of life (applicable only to lamp that contains mercury).
- Product information requirements for control gears:
 - Manufacturers of control gears shall provide at least the following information on free-access websites and in other forms they deem appropriate for each of their control gear models. That information shall also be affixed in a distinct and durable form to the control gear.
 - It shall also be contained in the technical documentation file drawn up for the purposes of conformity assessment in line with the procedure prescribed in the Emirates Conformity Assessment Scheme (ECAS) for Low-Voltage Equipment.

CONFORMITY PROCESS

Registration Procedure/Application Submission:

Working together with and on behalf of the manufacturer/importer, Intertek, as the appointed Notified Body, shall conduct a review of the application with a view of conducting the Certification Process and issue an ECAS Certificate of Conformity and (if applicable) authorize the affixing of the EQM. In parallel, Intertek shall register the product on the ESMA product registration database.

Intertek shall conduct the certification process in accordance with ISI/IEC 17065 mandatory work flow as indicated in Fig 1.0 below, and shall be obliged to conduct an annual technical review based on changes to:

- a. ECAS-certified product
- b. Revision of IEC standards (Safety & Performance - EEI) Issue new certificate annually based on review of a and b

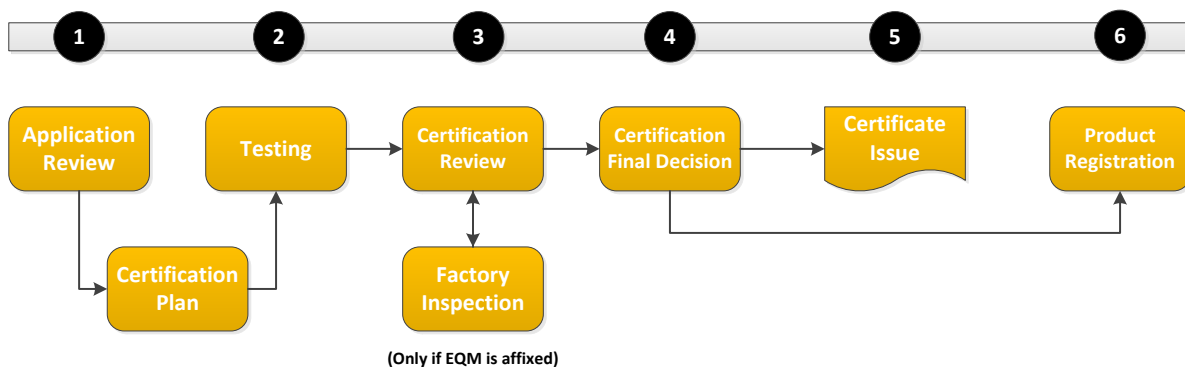
All product shall undergo a full re-test, inspection, and certification at the 3-year point from the date of issue of supporting test reports.

Conformity Assessment Procedure:

- Upon the acceptance of the submitted Application, and supporting Technical File, lighting equipment shall be evaluated to meet the specified requirements of U.A.E. Cabinet Order No: 34.
- Samples shall be tested as required to relevant standards of Annex xx of the Lighting Regulation.
- Testing shall be conducted by an ILAC accredited ISO IEC 17025 laboratory (EEI) and for Electrical Safety under the IECEE scheme by a CTF or CBTL, accompanied with an in IECEE CB certificate issued by an IECEE NCB.
- On successful review of the Technical File of the representative lighting equipment, Test Reports and accompanying Certificates, the Intertek Notified Body shall issue an ECAS Certificate of Conformity.
- The Intertek Notified Body shall upload a copy of the issued Certificate onto the ESMA product registration database
- Certificate validity is one year from date of issue.

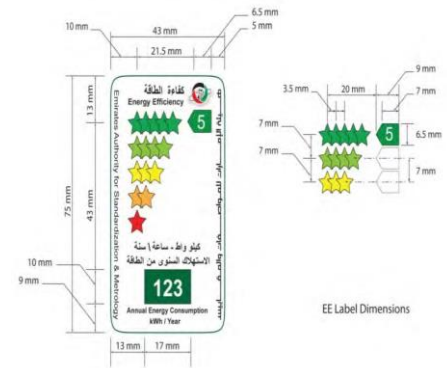
Intertek Notified Body Certification Visual Work Flow:

Fig 1.0: Intertek Internal Certification Process Flow – ISO / IEC 17065 (Lighting Equipments)



Intertek will accept test reports and certificates such as IECEE CB or other accredited schemes/programs where correlation/harmonization exists and have a validity period not exceeding **three (3) years** from the date of issue.

- When a relevant UAE.S Standard does not exist or has not been published, Intertek will accept the current version of IEC standards or where correlation exists to other standards.
- Upon meeting the ECAS program requirements, the manufacturer is obliged to draw up a Declaration of Conformity, as well as, if applicable, an Importer Declaration of Conformity.
- When all the requirements of the ECAS program are met, the lighting electrical equipment placed upon the market shall bear the energy efficiency label. (See EE label illustration).
- The EE label shall also include a symbol that indicates that the product has special disposal and collection requirements.
- The EE label shall be placed or printed on the most prominent part of the product packaging to be easily visible to the consumer.
- The applicant/manufacturer/importer can affix the EQM if on application has elected to subject the manufacturing site to a factory inspection.



LUMINAIRE EE LABELLING REQUIREMENTS

Article 6 Waste Classification for Lamps

To implement Article 7 of this Regulation, Lighting Products’ Waste are classified as follows:

- 6.1 Light bulbs to be classified as general waste include incandescent light bulbs and halogens.
- 6.2 Light bulbs to be classified as hazardous waste include mercury containing light bulbs (CFLs and LFs), electronic waste light bulbs (LEDs) and any new lighting technology containing mercury or other hazardous compounds.

Article 7 Safe Disposal

7.1 For safety of waste disposal, collection, storage and recycling, refer to Federal Law 24:1999 Protection of Environment and Cabinet Order 37 of 2001.

Article 8 Lighting Products Containing Hazardous Substances

Lighting Products containing Mercury and other hazardous chemicals, suppliers shall provide the following:

- 8.1 Details on the potential effects on the environment and human health from the presence of hazardous substances.
- 8.2 Instruction on how to safely install and safe disposal of non-working and broken lighting products including cleaning of mercury containing lighting products in case of breakage.
- 8.3 Instructions to collect such mercury-containing products separately and not to dispose them unsorted from municipal waste.

MANUFACTURER RESPONSIBILITIES

Within the design and development, manufacturing of, and subsequent placement onto the market of lighting products intended for the U.A.E. marketplace and therefore requiring the ECAS Conformity Mark, all manufacturers shall ensure that the product(s) meet the requirements set out in the ESMA Technical Regulation No:34.

The manufacturer shall:

- Establish a Technical Documentation file for each model or range of product
- Prepare a risk analysis/assessment report relating to the products within the series range
- Ensure that the technical file contains a third-party test report(s) from a GAC or ILAC-accredited laboratory or a CB Test Report (CBTR) and CB Test Certificate (CBTC) through the IECEE system
- Provide additional documentation, such as a detailed description of the product with conceptual design and manufacturing drawings
- Specify addresses of the places of manufacture and storage of the product
- Provide a list of the ECAS/Emirates or IEC standards applied in full or in part to the product

Regarding manufacturing procedures and processes for regulated products, manufacturers must have a system in place — typically a factory quality control system — in order to ensure that products are being manufactured and assembled in a controlled manner; this includes production line testing to confirm the product quality and integrity so as to maintain conformity within the design intent.

Once all of these requirements have been satisfied and the product has been registered in the electronic registration system, the manufacturer can affix the proper ECAS/Emirates Marking, with the proper registration number, to the product and draw up a written Declaration of Conformity.

Registration Procedure/Application for Regulated Products, Technical File Submission

The submitted Technical File shall contain:

- a. Manufacturers/Traders Declaration of Conformity for components (RoHS) and product(s)
- b. Technical File or technical documentation containing:
 - Valid IECEE CB Test Report – no older than 3 years from date of issue (Safety)
 - Valid IECEE CB Certificate- no older than 3 years from date of issue (safety)
 - Valid ISO / IEC 17025 ILAC accredited test report – Calculation of Energy Efficiency
 - Valid ISO / IEC 17025 ILAC accredited test report – Functionality (Performance)
 - Samples of Rating Plate & Energy Efficiency Label
 - Concept of operation, Engineering drawings representative of the product
 - Schematic wiring diagrams
 - Bill of Materials
 - Manufacturers Risk Assessment

- Manufacturers SDofC (Including DofC for restricted substances)
- Valid legal document – Certificate of Registration to trade in U.A.E.
- User manual English and Arabic text.
- Location of manufacturing sites / countries of origin
- Letter of authorization – Authorized Representative / Importer
- Storage location by sites / countries
- Completed and signed Intertek application form

Intertek shall conduct the certification process in accordance to ISI/IEC 17065 mandatory work flow as indicated in Fig 1.0 above and shall be obliged to conduct an annual technical review based on changes to:

- a. ECAS-certified product
- b. Revision of IEC standards (Safety & Performance - EE)

Issue new certificate annually based on review of a. and b.

- All product shall undergo a full re-test, inspection, and certification at the 3-year point from the date of issue of supporting test reports.

CERTIFICATION PROCESS

Certification Critical Work Flow – ISO/IEC 17065

The certification process to be followed by the Intertek Notified Bodies will be in line with the work flow as described under 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) Certification Workflows:

ECAS Certificate of Conformity (Fig 1.1 Only) for affixing the EQM (Fig 1.2 Only)

Fig 1.1: ECAS CAP - (Safety, Energy Efficiency, Functional Performance RoHS) Based on a Type / Systems 1 Conformity Assessment

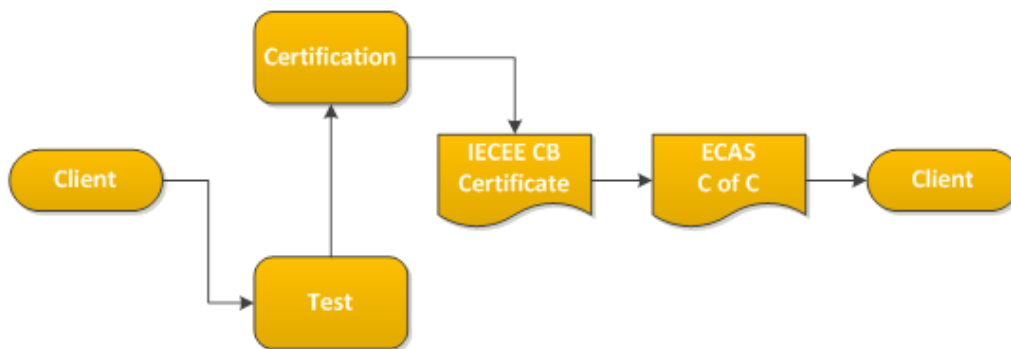
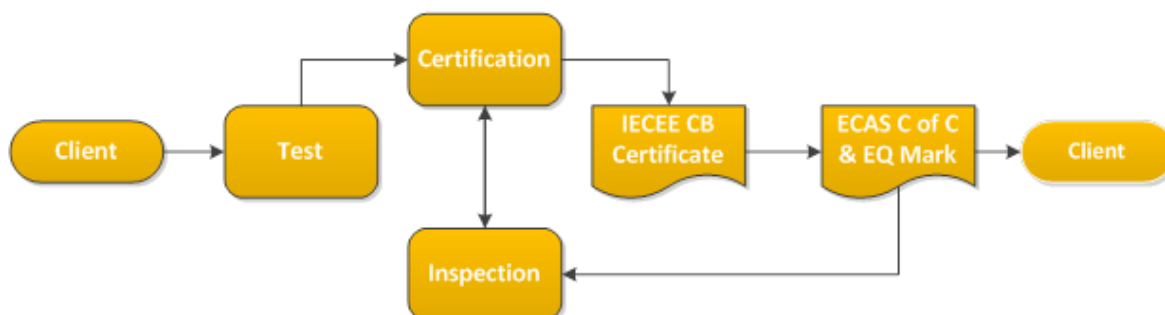


Fig 1.2: ECAS CAP - (Safety, Energy Efficiency, Functional Performance RoHS) Based on a Type / Systems 3 Conformity Assessment process incorporating an annual factory inspection



Language and Storage Guidelines: Regulated Products

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.

Intertek Certification/Notified Body Locations

Intertek currently has a Notified Body accredited by the GAC under ISO/IEC 17065 as defined within the scope of ECAS-regulated products for issuance of a Certificate of Conformity. Manufacturers/importers/agents can apply for an ECAS Certificate of Conformity through this or any Intertek Electrical & Network Assurance office.

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 (Energy Efficiency, RoHS, Functional Performance, EMC if applicable)
2. Electrical Safety, an IECEE CBTL or CTF report accompanied by a valid IECEE CB Certificate.
3. The test reports in all cases are no older than 3 years from the date of issue
4. The reference standards used within the third-party report are IECEE CB/UL/EN or a standard that on review is deemed valid by the Notified Body and covers the national deviations defined within ESMA’s ‘Conformity Assessment System for Lighting Products’ document for the U.A.E.
5. The reference standards used have not a date of withdrawal within one (1) year

Intertek Acceptance of Third Party Certification

Intertek will accept third party certification issued for the ECAS mark such as IECEE CB, ENEC, GS, or other internationally-known schemes or marks providing that national deviations for the Emirates are met and that on review:

1. The Certification is issued by an accredited ISO/IEC 17065 body or IEC NCB and is representative of the product series or range
2. Certificate validity is in date with a minimum of three (3) years remaining from date of issue.
3. No date of withdrawal against the reference standard(s) within (1) year of validity expiry
4. The valid Certificate is accompanied with a representative Technical File that meets the requirements of ESMA/ECAS Regulation for Lighting (‘Conformity Assessment System for Lighting Products’)
5. Reference standard(s) used are representative of the product and deemed suitable by Intertek
6. In all cases Intertek shall ensure electrical safety requirements before making a certification authorization decision

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.

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

ECAS PROGRAMS – GLOBAL LOCATIONS & CONTACT INFORMATION

EUROPE, THE MIDDLE EAST, AND AFRICA

intertek.com/contact/ema/

NORTH AND SOUTH AMERICA

intertek.com/contact/americas/northandsouthamerica/

ASIA PACIFIC

intertek.com/contact/asiapacific/



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

Lighting 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 the safety or performance of the product, the manufacturer shall in all cases contact the issuing Notified Body. Per that process, the product shall in all cases undergo a Certification Review and Certification Decision to determine that it still meets requirements.

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. If renewal is required:

- The product and Technical File shall undergo a design and technical review to ensure that the requirements are still being met (Construction Review – single sample)
- The reference standard(s) used for electrical safety presumption of conformity shall be verified
- If there are no technical changes to the reference standard(s) that affect the product, an ECAS Certificate of Conformity shall be issued – (e.g., new certificate, ECAS registration database updated, etc.)
- If technical changes to Lighting Equipment 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 that expire beyond the one (1) year validity date shall be withdrawn and the ECAS registration database updated, and the customer informed.
- In the event of technical changes to standard(s) which affect safety or performance during the Certificate of Conformity validity period, the applicant will be informed of the technical changes and advised of the appropriate actions to take

Misuse of the ECAS Certificate of Conformity/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.

Violations and Penalties

In the event of any violations, ESMA and relevant government authorities shall implement the following actions to address the violation:

- Enforce the necessary actions depending upon the gravity of the violation to require the supplier to recall the product to either repair, re-export, or destroy them as per the agreed period of implementation.
- Implement the agreed-upon mitigating actions on the non-compliant products and call upon their authority to announce the product recall, in which the supplier shall bear the cost.

Violations and Penalties from the Federal Law 28 of 2001 shall apply.

ESMA shall have the authority to withdraw or cancel the Certificate of Conformity granted to the non-complying product.

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

- Lighting products are being inspected at Port of Entry into the U.A.E. Only consignments having valid ECAS Certificates of Conformity, registered onto the ESMA database, and valid ECAS Mark of Conformity (if applied for Lighting products) are allowed to enter the country.
- Consignment without the ECAS Certificate of Conformity shall be held. Ports and Customs authority shall coordinate with ESMA whenever a consignment without ECAS certificate 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 having ECAS Certificates of Conformity and registered on the database are allowed to be traded in the U.A.E.
- Registered Certified 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 of 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/ importer.

The ECAS Certificate of Conformity Registration

- After obtaining the ECAS Certificate of Conformity and subsequent registration onto the database, the supplier can use the certificate in clearing the registered products at the Ports and Customs Authorities.
- The ECAS Certificate of Conformity shall be used only for those registered products. Care should be taken so as not to misuse the certificate nor to use it in such a manner that may be considered misleading.
- ECAS Certificate of Conformity shall be valid for one year. Renewal of Certificate registration shall be required a month before the expiration date of the issued Certificate.

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.

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Total Quality. Assured.