CERTIFICATION PROCEDURE & REQUIREMENTS FOR LIGHTING PRODUCTS ENTERING VIETNAM MARKET

Presented by Nguyen Truong Giang
April, 4th 2019
1. Introduction of QUATEST 3
2. Mandatory requirements for EE products (including lighting products) entering Vietnam market.
3. Q & A
1. QUATEST 3

INTRODUCTION
Vietnam Quality Infrastructure System

Quality Services

Governance
- Framework
- Regulatory
- Quality Policy
  (MoST, STAMEQ)

Quality Infrastructure Institutions
- Metrology
  (VMI)
- Standardization
  (VSQI)
- Accreditation
  (BoA)

Conformity Assessment
- Testing
- Certification
- Inspection
  (QUATEST 3)

Calibration & Verification

Quality Promotion

Value Chain Upgrading

Enterprise Upgrading

Capacity Building

Note: Products meet multi-requirements and should apply multi-certificate if they fall in different scopes.
SCOPES OF TECHNICAL SERVICES

Materials (Metallic & non-metallic)
Machinery, equipment, production line
Welds testing & Non-destructive testing (NDT)
Chemical (chemical, fertiliser, pesticides, herbicides, etc.)

Petrochemical products (gasoline, DO, FO, lubricants, additives, and so on)
Food safety (fresh & processed foods, foods additives, packing materials, etc.)
Aquatic & sea foods, agricultural products, animal feeds
Environmental (testing, measuring, monitoring)

Construction materials & components
Electrical – electronic and telecommunication products
Consumers products (textile, foot ware, toys, plastic, furniture, etc.)
GS1 standards & technology applications
OUR VISION

Within the leading group of conformity assessment bodies in ASEAN
2. Mandatory requirements for EE products entering Vietnam

- **Vietnam RoHS**
- **EE Product to Vietnam**
- **MEPS, EE Labelling**
- **Others**

**CR marking (SAFETY, EMC)**

M for Mandatory
V for voluntary
# SAFETY REQUIREMENT

## TECHNICAL REGULATION No. 4 (QCVN 4:2009/BKHCN)

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>REGULATORY AGENCY</th>
<th>REGULATIONS</th>
</tr>
</thead>
</table>
| Electrical Safety | Directorate for Standards, Metrology and Quality (STAMEQ). | • Regulated products that are locally manufactured or imported require mandatory certification (scheme 1b, 5) by a third-party CB (registered with STAMEQ according to Decree 107/2017/ND-CP).  
• Additionally, imported products are also regulated by Decision 3482/2017/QĐ-BKHCN (Import-Export Goods Control List) and Circular 27/2012/TT-BKHCN, 07/2017/TT-BKHCN (Quality control procedure for regulated imported products).  
• Compliance with TCVN and/or IEC standards. |

### Applicable product categories

Safety mark is required for below equipment categories:

1. Appliances for skin or hair care
2. Electric fan
3. Electric grills, toasters and similar heater portable cooking appliances
4. Electric hand dryer
5. Electric iron
6. Electric kettle
7. Electric tea and coffee makers
8. Instant water heater
9. Microwave oven
10. Wires and cables of rated voltage from 50 V to 1000 V
11. Portable immersion heaters
12. Rice Cooker
13. Storage water

### Reference legal documents

**EMC REQUIREMENT**

**TECHNICAL REGULATION No. 9 (QCVN 4:2009/BKHCN)**

**REGULATIONS**

- **Regulated products** that are locally manufactured or imported require mandatory certification (scheme 1a) by a third-party CB (registered with STAMEQ according to Decree 107/2017/ND-CP).
- Imported products are also regulated additionally by Decision 3482/2017/QĐ-BKHCN (Import-Export Goods Control List) and Circular 27/2012/TT-BKHCN, 07/2017/TT-BKHCN (Quality control procedure for regulated imported products).
- Compliance with TCVN and/or CISPR standards.

**Applicable product categories:**

EMC mark is required for below equipment categories:

<table>
<thead>
<tr>
<th>No.</th>
<th>Products</th>
<th>Applied standards</th>
<th>Mandatory certification from:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Electric Air-conditioners</td>
<td></td>
<td></td>
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<tr>
<td>2.</td>
<td>Electric refrigerators and freezers</td>
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<td></td>
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<tr>
<td>3.</td>
<td>Electric Vacuum cleaners</td>
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<tr>
<td>4.</td>
<td>Electric Washing machines</td>
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<td></td>
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<tr>
<td>5.</td>
<td><strong>Self-ballasted (compact) lamp</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Instant water heaters</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Motor operated portable electric drillers</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Amendment 1:2018 (QCVN 9:2012/BKHCN)** added 4 product categories to the list of EMC mandatory certification as following:

<table>
<thead>
<tr>
<th>No.</th>
<th>Products</th>
<th>Applied standards</th>
<th>Mandatory certification from:</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.</td>
<td>Electric cooker (including induction cooker)</td>
<td>CISPR 14-1:2016</td>
<td>Jul. 1st, 2021</td>
</tr>
</tbody>
</table>
### MEPS/EE Labelling Program

**Applicable product categories:**

- **Group 1** includes household equipment: **straight tube/compact fluorescent lamps, electromagnetic/electronic ballasts for fluorescent lamps**, air conditioners, refrigerators, household ballasts for fluorescent lamps, air conditioners, refrigerators, household fans, TVs, **LED lamps** and hot water heaters.

- **Group 2** includes office equipment including: copy machines, computer monitors, printers, commercial refrigerated cabinets and laptops.

- **Group 3** includes industrial equipment including: distribution transformers and electric motors.

- **Group 4** includes transportation vehicles including: cars with 9 seats or less, motorcycles and mopeds.

#### Table: MEPS/EE Labelling Program

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>REGULATORY AGENCY</th>
<th>REGULATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy Efficiency</td>
<td>Ministry of Industry and Trade (MoIT).</td>
<td>• Decision 24/2018/QĐ-TTg (MEPS Program).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Decision 04/2017/QĐ-TTg (EE Program).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Circular 36/2016/TT-BCT.</td>
</tr>
</tbody>
</table>
APPLIED STANDARDS FOR LIGHTING PRODUCTS IN ENERGY EFFICIENCY LABELLING PROGRAM

Lighting Products (GROUP 1)

2017


2019

LED lamps (TCVN 11844:2017)

2020

LED lamps (TCVN 11844:2017)

31/12/2019 (01/01/2020)
Certification mode used by Authorities for electrical – electronic product (including lighting product) in the purpose of pre-market regulation:

- Safety requirements (QCVN 4:2009/BKHCN): Scheme 1b, 5.
- EE Labelling: SDoC.
SCHEME 1a: PROCEDURE FOR TYPE-TEST CERTIFICATION

Applicants (domestic or imported goods)

Application for Certification

Type Test (by 3rd-party recognized Test Lab)

Certificate

CA conformed

Declaration of Conformity at local authorized agency

Finalize import procedure (in case of imported goods only)

Labelling

Market
SCHEME 1b: PROCEDURE FOR LOT (BATCH) CERTIFICATION

Certification Body (CAB) designated/recognized by Authority

Applicants

Application for lot (batch) certification

Type Test (by 3rd-party recognized Test Lab)

CA

Certificate

Complied

Conformed

Declaration at local authorized agency

CA

Acceptance Certificate & declaration

Finalizing import procedure

Labeling as regulated by law

Market

The procedure of scheme 1b is applied for both foreign and local manufactures
SCHEME 5: PROCEDURE FOR FACTORY INSPECTION + SAMPLE TESTING + FOLLOW-UP

The procedure of scheme 5 is applied for both foreign and local manufactures.
EE Labelling approval
SDoC

Manufacturers, importers, traders

Type testing
Registered Testing Laboratory

- Accreditation ISO/IEC 17025.
- Registration with Vietnam authority according to Decree 107/2017/ND-CP.

Documentations preparation

- Test report
- Lab’s accreditation ISO/IEC 17025.

Online Registration on MoIT website

Ministry of Industry & Trade (MoIT)

Labeling of certified equipment, apparatus

VN market
Vietnam regulations for lighting product

CR Marking (EMC)

M for Mandatory
V for voluntary

Vietnam RoHS

Lighting Product to Vietnam

MEPS, EE Labelling

Label
GENERAL REQUIREMENT:

Provides label contents and presentation thereof of goods circulated in Vietnam, including imported goods.

- **Mandatory contents on goods labels**: i) Name of goods, ii) Name and address of the enterprise responsible for the goods; iii) Origin of goods, and iv) Other details.
- **Language**: Mandatory information on the label must be written in Vietnamese.
- **Secondary labels for imported goods**: must contain Vietnamese.
- **Date of manufacture and expiration date**: must be written in the "date-month-year" format (according to the solar calendar)
- **Ingredients and ingredient quantities**: Presentation of ingredients means listing the name of materials, including any additives
Confirmative label is used on the LED lamp product that meet the minimum energy efficiency level specified by 4889/QĐ-BCT:

<table>
<thead>
<tr>
<th>No.</th>
<th>Parameter</th>
<th>Sampling size</th>
<th>Requirement</th>
<th>Testing method</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Initial power</td>
<td>5</td>
<td>• Average measured power ≤ 108% rated power.</td>
<td>TCVN 8783</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• 85% rated power ≤ all measured power of samples ≤ 115% rated power.</td>
<td>(IEC 62612)</td>
</tr>
<tr>
<td>2</td>
<td>Initial lumen</td>
<td>5</td>
<td>• 90% rated lumen ≤ average measured lumen.</td>
<td>TCVN 8783</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• 85% rated lumen ≤ all measured lumen of samples.</td>
<td>(IEC 62612)</td>
</tr>
<tr>
<td>3</td>
<td>Energy efficiency</td>
<td>5</td>
<td>• Self-ballasted LED lamp (E27, B32):</td>
<td>TCVN 11843,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>EE level</td>
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<td></td>
<td></td>
<td></td>
<td>Initial luminous efficacy (lm/W).</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>CCT ≥ 4000 K</td>
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<td></td>
<td>CCT &lt; 4000 K</td>
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<td></td>
<td>MEPS 70</td>
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<td></td>
<td>MEPS 60</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>• Straight tube LED lamp (G5, G13):</td>
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<td></td>
<td></td>
<td></td>
<td>EE level</td>
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<td></td>
<td></td>
<td></td>
<td>Initial luminous efficacy (lm/W).</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>CCT ≥ 4000 K</td>
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<td></td>
<td>CCT &lt; 4000 K</td>
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<td></td>
<td></td>
<td>MEPS 90</td>
<td></td>
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<td></td>
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<td></td>
<td>MEPS 80</td>
<td></td>
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<tr>
<td>4</td>
<td>Average life</td>
<td>-</td>
<td>Min 12,000 h.</td>
<td></td>
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<tr>
<td></td>
<td>(life to 50% failures)</td>
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</tbody>
</table>
THANK YOU!
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