




Accreditation, certification, recognition, official designation and certification agreements

<p>Recognition of quality – Accreditation and certification</p> <p><i>LCIE is accredited by the French Committee for Accreditation (COFRAC) for most of its testing, product certification and quality systems activities. LCIE is also certified under the standard ISO 9001.</i></p>	<p>Recognition of quality – Accreditation and certification</p> <p><u>Accreditation No 1-1633 (Moirans premises):</u></p> <ul style="list-style-type: none"> ▪ Electromagnetic compatibility – emission (program No 27-1) ▪ Electromagnetic compatibility – immunity (program No 107) ▪ Electromagnetic compatibility – Tests on telecommunication terminals (program No 120) ▪ IT equipment: electrical safety testing (program No 27-2) ▪ Medical devices (not associated to any program) 	<p>Recognition of quality – Accreditation and certification</p> <p><u>COFRAC Accreditation for Products Certification</u> -NF EN 45011 – Guide ISO/IEC 65</p>
<p>COFRAC Accreditation for Tests NF EN ISO/IEC 17025-</p>		
 <p>Accreditations n° 1-0311, 1-0312, 1-1633, 1-2230 Scope available on www.cofrac.fr</p> <p><u>Accreditation No 1-0311 (Fontenay-aux-Roses Premises):</u></p> <ul style="list-style-type: none"> ▪ Switchgear components for domestic or similar installations (program No 21) ▪ Low-voltage industrial switchgear components program (program No 13) ▪ Equipment used in high or medium-voltage distribution (program No 58) ▪ Equipment for low-voltage insulated transmission line networks <ul style="list-style-type: none"> - accessories (program No 44-1) - insulated cables (program No 44-2) ▪ Equipment used to equip underground and HV/LV isolated industrial networks. Part related to accessories (program n° 44-5) ▪ Equipment used in potentially explosive atmospheres (not associated to any program) ▪ Climatic and mechanical atmosphere (program No 38) 	<p><u>Accréditation N° 1-2230 (Pulversheim premises) :</u></p> <ul style="list-style-type: none"> ▪ Electromagnetic compatibility – emission (program No 27-1) ▪ Electromagnetic compatibility – immunity (program No 107) ▪ Electromagnetic compatibility – Tests on telecommunication terminals (program No 120) 	 <p>Accreditation n° 5-0014 Scope available on www.cofrac.fr</p> <p><u>Accreditation No 5-0014</u></p> <p>Industrial Products certification for the following marks:</p> <ul style="list-style-type: none"> ▪ NF for the electrical and electronic equipment, LCIE being appointed by the AFAQ AFNOR Certification (French Standards Association) ▪ IECEx for electrical equipment to be used in potentially explosive atmospheres ▪ ENEC for luminaires, lighting equipment and accessories, household appliances, data processing equipment ▪ HAR (USE) for conductors and electric cables ▪ GS: safety of electrical and electronic equipment, domestic appliances and data processing equipment <p>IECEE OC/CB Certificates for type conformity certification.</p>
<p><u>Accreditation N° 1-0312 (Fontenay-aux-Roses premises):</u></p> <ul style="list-style-type: none"> ▪ Household electrical appliances and luminaires (program No 2) ▪ Electromagnetic compatibility – emission (program No 27-1) ▪ Electromagnetic compatibility –immunity (program No 107) ▪ Electromagnetic compatibility – Tests on telecommunication terminals (program No 120) ▪ IT equipment: electrical safety testing (program No 27-2) <p>Medical devices (not associated to any program)</p>	<p>COFRAC Accreditation for Company and Personnel Certification NF EN ISO/IEC 17021</p>	
	 <p>Accreditation n° 4-0019 Scope available on www.cofrac.fr</p> <p><u>Accreditation No 4-0019</u></p> <p>- Certification of Quality Management systems according to NF EN ISO 9001: 2000 and 2008 for activities according to the EA/IAF Codes No :</p> <ul style="list-style-type: none"> • 14 : Rubber and plastic products • 17 : Basic metal & fabricated metal products • 18 : Machinery and equipment • 19 : Electrical and electronic equipment 	<p><u>ISO 9001 Certification</u></p> <p>Certification and testing for electrical and electronic products, and related products. Certificate FS 34143</p>



Other types of recognition at national level : LCIE is a Body approved by the French government for application of several technical regulations in various fields

European directives: LCIE is a notified and competent Body for the following European directives:

Fontenay-aux-Roses premises (identification No 0081)



Low voltage – LV: notified Body (article 8)

- Electromagnetic compatibility – EMC: competent Body (article 20.2), notified Body (article 10.5)
- Equipment for potentially explosive atmospheres (94/9/EC) - ATEX: notified Body for all modules
- Machinery: notified Body for B1-B2 safety components (appendix IV)
- Personal Protective Equipment - PPE: notified Body for personal electric shock protection equipment (articles 10 and 11 A)
- R&TTE: notified Body for conformity tests on radioelectric terminals (appendixes III and IV)



Moirans premises (identification No 1905):



- Low voltage – LV: notified Body (article 8)
- Electromagnetic compatibility – EMC: competent Body (article 20.2), notified Body (article 10.5))

> Conformity Assessment – Product Certification

At national level, the French Standard Association AFAQ



AFNOR CERTIFICATION, authorizes LCIE to issue the NF mark for:

- **Electrical and electronic equipment :**
NF Electricité, NF Electricité-Performance (electrical household appliances), NF Luminaires, NF AEAS (autonomous emergency lighting units).
- **Electrical installation and communication equipment:**
- NF and NF USE (conductors and cables, conduits and ducting, switchgear)
- NF Réseaux COM (communication network infrastructures)
- **Other categories:**
- NF composants électroniques (electronic components)
- « Open » NF mark for products not mentioned above.

At European level:

- LCIE is signatory of the CCA Agreement promoting access of the other signatory countries' trademarks.

- is a Body authorized to issue the German mark **GS-Bureau Veritas** for the safety of electrical and electronic equipment and household appliances.



- Is a Body authorized by ZLS to issue the mark GS, to use the recognition tests of the electrical equipment to be used in a non-industrial environment, performed by the ADT Taiwan and the LCIE China (Shanghai) laboratories.

- Is a body authorized by ZLS to perform testing (ISO/IEC 17025) and certification (EN 45011) of electrical equipment to be used in a non-industrial environment.

LCIE also issues the following:

- **ENEC:** for luminaires, data Processing equipment, transformers, electrical household appliances, conductors and cables



- **HAR :**



cables and conductors

- **EMC :**

for products meeting electromagnetic compatibility standards.



At international level

▪ **IECEE OC/CB** Certification under the aegis of the International Electrotechnical Commission (IEC) - around 50 signatory countries-

▪ **IECEx** Certification of equipment for use in potentially explosive atmospheres under the aegis of the International Electrotechnical Commission (IEC)

LCIE issues

the **IECQ-CECC**



mark for electronic components.

▪ **Bilateral recognition agreements with the following testing and certification bodies:**

- **IRAM** (Argentina): recognition of tests and factory inspections for access to the IRAM mark for low-voltage electrical equipment

- **SAI Global** (Australia): recognition of tests and inspections for low-voltage electrical inspection in Australia, Malaysia and Thailand

- **Japan Electrical Testing (JET, Japan):** recognition of tests and factory inspections for access to the Japanese S and PSE marks

- **PREDOM** (Poland): recognition of tests for access to the B mark for low-voltage electrical equipment

- **GOST Re** (Russia): recognition of tests and factory inspections for access to the GOST R mark, for low-voltage electrical equipment



▪ **ASEFA:**

Testing and type certification of low and high voltage industrial switchgear, part of the European Agreement Group, LOVAG.

Bilateral recognition with the following testing and factory inspections:

- Singapore Productivity and Standards Board (PSB, Singapore),
- ANCE (Mexico)
- Bellis (Belarus)
- UNIT (Uruguay)
- SII (Israel)
- KETI (Korea)
- ERI (Korea)
- KTL (Korea)
- KAITECH (Korea)
- TUV Rheinland Division UCIEE (Brazil: Recognition of factory inspections for low-voltage electrical equipment and equipment used in potentially explosive atmospheres)

▪ **Bilateral recognition agreements specific to potentially explosive atmospheres for access to the marks of the following certification bodies:**

- CQST (China)
- NEPSI/SIPAI (China)
- PCEC (China)
- FM (United States)
- KGS (Korea)
- KTL (Korea)
- TIIS (Japan)

Other official recognition

- **Federal Communications Commission (FCC, United States):** accreditation for electromagnetic compatibility tests on various types of equipment

- **Electrical and mechanical Services Department (EMSD, Hong Kong):** recognition of tests on low voltage electrical equipment

- **US Coast Guard (United States):** recognition of tests on equipment for use in potentially explosive atmospheres

- **Jordan Institution for Standards and Metrology (JISM/Daman Program, Jordan):** recognition of tests

- **Involvement in Mutual Recognition Agreements (MRA) between the European Union and other countries:** Australia, Canada, Japan, New-Zealand.



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