SPCR 125

Certification rules for evaluation (certification) of telecommunication equipment in order to show conformity with the FCC-Federal Communications Commissions requirements
Introduction

Product certification is an attestation by an independent third party that a product meets the requirements of a standard or other form of specification. Certifications through RISE are performed by a dedicated department, RISE Certification. Certification of products at RISE is conducted in accordance with EN ISO/IEC 17065. The tests used for certification are carried out in accordance with EN ISO/IEC 17025. These certification rules are based on current regulations and standards but may be revised in the future in the case that new regulations and standards are introduced or as a result of experience from the application of these certification rules.

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1 Scope

These certification rules cover certification of telecommunication equipment according to Federal Communications Commission (FCC) regulations. RISE is authorised to issue FCC Grant of certification for the following scopes:

- Unlicensed Radio Frequency Devices, scope A1, A2, A4
- Licensed Radio Service Equipment, scope B1, B2, B4

Description/explanation of the TCB Scope codes/designators can be found in the FCC KDB 641163

The certification is based on the requirements in Code of Federal Regulations (CFR) Title 47 Telecommunication and is a verification of compliance with the requirements stated there. The examination consists of a certification process according to section 2. If the product is judged to fulfill the requirements, an FCC Grant of certification is issued*

RISE perform this certification in its role as a Telecommunication Certification Body (TCB), authorised by FCC.

The certification scheme covers type examination, issuing of an FCC Grant of certification, followed up by Market Surveillance testing of samples from the factory (as described in FCC KDB 610077).

* the FCC Grant of certification is an electronic document available on FCC:s website.

2 The certification process

2.1 General

Certification of telecommunication equipment is carried out according to U.S. Federal Communications Commission regulations for Equipment Authorization. The FCC regulations for certification are based on U.S. Code of Federal Regulations Title 47 and includes an evaluation of the technical requirements. If the product is found to comply with the requirements, a Grant of certification can be issued.

Other requirements are presented in RISE General conditions for product certification CR 000.

2.2 Application

Application for certification shall be submitted in writing. A dedicated application form for SPCR 125 is available on www.ri.se. The application form gives guidance about what shall be included in the application. By signing the application, the applicant also accepts the FCC rules for market surveillance.

Test reports submitted in the application must be issued by a test lab which is recognized by FCC. The FCC has an online database which is designated "Equipment Authorization System Test Firm Search" where all recognized labs can be found.
2.3 Test samples
The application shall be accompanied by at least one sample of the product. RISE can request additional samples if this is found to be necessary for test, examination and/or assessment.

2.4 Initial review of the application
During the initial review of the application, RISE will ensure that these certification rules are applicable and that the content of the application is satisfactory. If anything is unclear or missing, RISE will clarify these issues with the client before the certification process can continue. The review may result in the verdict that RISE cannot accept the assignment, which is then communicated to the applicant with an explanation. If RISE accept to take on the assignment, the applicant will receive a confirmation that the application has been accepted. This confirmation is the start of the certification agreement between the parties.

2.5 Evaluation
The evaluation process includes review of tests performed on the test sample(s) and examination of the technical documentation, marking and user manuals, and are carried out according to the standards and methods stipulated in the CFR Title 47. When applicable, documents from the FCC Office of Engineering and Technology (OET) Laboratory Division Knowledge Database (KDB) are used to interpret the rules. The result of the evaluation is summarised in an internal report which will be used for the certification.

2.6 Review and decision
The evaluation will be reviewed, and if approved, the process will proceed to determining a decision about certification. When a decision on certification has been taken, an FCC Grant of certification* is issued to the applicant.

* the FCC Grant of certification is an electronic document available on FCCs website.Certificates/

2.7 Validity
The validity time of the FCC Grant of certification is not limited, but a general prerequisite for the validity of the certificate is that all manufactured products must be identical to the evaluated sample. The definition of the term “identical” is listed in CFR Title 47.

2.8 Changes to certified products
Note that in general, no changes may be made to the FCC certified product. Depending on the type of change, even a new certification may be required.

It is the manufacturers responsibility to keep informed of any FCC rule changes that may affect a proposed change to a certified product.
The manufacturer must fully conform to the rules in CFR Title 47 regarding changes to certified products, prior to any marketing or sale of such changed product.

If new rules have entered into force after the completed certification of a product, then the new rules apply when assessing a proposed change to that product.

2.9 Market surveillance

Every year, RISE will choose some of the previously certified products for market surveillance. The number of samples will correspond to 5% of the FCC certified products at RISE during the year. When RISE has notified the FCC Grant of certification holder, they are required to send a sample to RISE for testing. If deviations are found, the FCC will be notified, and the certificate holder must within 30 days present a plan how to correct the deviations.

3 Requirements

3.1 Technical requirements

The technical requirements are specified in CFR Title 47. When applicable, documents from FCC OET Laboratory Division Knowledge Database (KDB) are used to interpret the rules.

3.2 Marking

Marking requirements per CFR Title 47 apply, markings are checked as part of the certification process.

4 General terms and conditions

Provided in the RISE document General certification rules for certification of products CR000.

5 History

2001-01-16 SP (RISE) listed as a Conformity Assessment Body for this field

2022-10-11 SPCR 125 (this document) renewed. New layout, new company name (from SP to RISE), updated references.