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DRAFT Mexican Official Standard PROY-NOM-230/1-SCFI-2019, Microwave equipment for systems Fixed multichannel point to point and point to multipoint. Part 1: Multiple access radio.

In the margin a stamp with the National Shield, which says: United Mexican States.- ECONOMY.- Secretariat of Economy.- General Directorate of Standards.

DRAFT OFFICIAL MEXICAN STANDARD, PROY-NOM-230/1-SCFI-2019, MICROWAVE EQUIPMENT FOR FIXED MULTI-CHANNEL SYSTEMS POINT TO POINT AND POINT TO MULTIPOINT. PART 1: MULTIPLE ACCESS RADIO.

ALFONSO GUATI ROJO SÁNCHEZ, Director General of Standards and President of the Advisory Committee National Standardization Office of the Ministry of Economy (CCONNSE), based on articles 34 sections II, XIII and XXXIII of the Organic Law of the Federal Public Administration; 4 of the Federal Law of Administrative Procedure; 39 sections V and VII, 40 sections I, XIII and XVI, 47 section I of the Federal Law on Metrology and Standardization; 33 of the Regulations of the Federal Law on Metrology and Standardization and 36 sections I, IV, IX and X of the Internal Regulations of this Secretariat, issue the Project for public consultation of the Official Mexican Standard PROY-NOM-230/1-SCFI-2019, Microwave Equipment for Fixed Systems Multichannel Point to Point and Point to Multipoint. Part 1: Multiple Access Radio, approved on December 18 2019, in order that within the next 60 calendar days the interested parties present their comments before the CCONNSE, located at Calle Pachuca number 189, Colonia Condesa, Demarcation Territorial Cuauhtémoc, Postal Code 06140, Mexico City, telephone 57 29 61 00, extension 13204, or either to the email [consultapublica@economia.gob.mx](mailto:consultapublica@economia.gob.mx), so that under the terms of the Law of the matter are considered within the Committee that proposed it. SINEC-20191209173622687.

Mexico City, January 30, 2020.- The Director General of Standards and Chairman of the Committee National Advisory for Standardization of the Ministry of Economy, Alfonso Guati Rojo Sánchez.- Rubric.

DRAFT OFFICIAL MEXICAN STANDARD PROY-NOM-230/1-SCFI-2019, "TEAMS OF MICROWAVE FOR FIXED MULTI-CHANNEL SYSTEMS POINT TO POINT AND POINT TO MULTIPOINT. PART 1: MULTIPLE ACCESS RADIO "

Preface

The following participated in the preparation of this Draft Official Mexican Standard: institutions:

- SECRETARY OF ECONOMY

General Directorate of Standards

- FEDERAL INSTITUTE OF TELECOMMUNICATIONS

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### 8. Bibliography

#### 1. Purpose and scope

This Official Mexican Standard establishes the technical specifications and the corresponding test methods to be met by radio communication equipment to be used in a radio system multiple access via microwave point-to-point and / or point-to-multipoint links in the 2 band 300 to 2,450 MHz.

#### 2. References

For the correct application of this Official Mexican Standard, the

- Technical provision IFT-014-2018. MICROWAVE EQUIPMENT FOR FIXED SYSTEMS POINT-TO-POINT MULTICHANNEL AND POINT-TO-MULTI-POINT. PART 1: RADIO ACCESS MULTIPLE, published in the Official Gazette of the Federation on November 26, 2018.

#### 3. Specifications

All radio communication equipment to be used in a multiple access radio system by means of point-to-point and / or point-to-multipoint microwave links in the 2 300 to 2 450 MHz band of your choice imported, commercialized and / or distributed within the territory of the United Mexican States must Comply with the specifications established in the Technical Provision IFT-014-2018. TEAMS OF MICROWAVE FOR FIXED MULTI-CHANNEL SYSTEMS POINT TO POINT AND POINT TO MULTIPOINT. PART 1: MULTIPLE ACCESS RADIO, published in the Official Gazette of the Federation on November 26, 2018.

#### 4. Test methods

All radio communication equipment to be used in a multiple access radio system by means of point-to-point and / or point-to-multipoint microwave links in the 2 300 to 2 450 MHz band of your choice

imported, commercialized and / or distributed within the territory of the United Mexican States must comply with the test methods established in Technical Provision IFT-014-2018. TEAMS OF

MICROWAVE FOR FIXED MULTI-CHANNEL SYSTEMS POINT TO POINT AND POINT TO MULTIPOINT. PART 1: MULTIPLE ACCESS RADIO, published in the Official Gazette of the Federation on November 26, 2018.

#### 5. Assessment of conformity

The evaluation of the conformity of this Official Mexican Standard must be carried out by individuals accredited by an accreditation entity, and approved by the Ministry of Economy and the Federal Institute of Telecommunications, in accordance with Technical Provision IFT-014-2018. TEAMS OF MICROWAVE FOR FIXED MULTI-CHANNEL SYSTEMS POINT TO POINT AND POINT TO MULTIPOINT. PART 1: MULTIPLE ACCESS RADIO, issued by the Federal Institute of Telecommunications and published in the Official Gazette of the Federation on November 26, 2018.

##### 5.1 General provisions

Once the present Mexican Official Standard is published in the Official Gazette of the Federation as Definitive standard, the evaluation of the conformity of microwave equipment, object of the Official Standard Mexican, must be carried out by accredited and approved persons or by the competent agency in terms of the provisions of the Federal Law on Metrology and Standardization and its Regulations, in accordance with the "Procedure for conformity assessment" described below.

This conformity assessment procedure (PEC) establishes the mechanism and requirements for individuals to demonstrate equipment compliance with the requirements established in the Standard Mexican Official. It also establishes the procedures, requirements and responsibilities of the conformity assessment.

When there are accredited and approved certification bodies to certify the equipment of microwave object of this Official Mexican Standard, will be carried out solely and exclusively by them.

The Certification Body (OC) must be accredited and approved in accordance with this Standard Mexican Official and in the Mexican Standards referred to in it, the certificates of conformity granted by the OCs must comply with the provisions of Appendix A (Regulations).

The validity of the reports of results must have a maximum of 90 calendar days from their date of issue; the report for its issuance must not exceed 7 calendar days after the termination of the tests; both for certification and monitoring purposes.

The expenses arising from the acts of evaluation of the conformity of this Standard Mexican Official are in charge of the applicants or interested parties to whom they are made.

The Certification Bodies must permanently keep the Secretariat of Economy of the certificates of conformity they issue.

The Ministry of Economy, through the General Directorate of Standards, is the competent authority for resolve any controversy in the interpretation or resolution of cases not provided for in this PEC.

##### 5.2 Definitions

For the purposes of this Conformity Assessment Procedure, it is understood as:

###### 5.2.1 Extension of ownership

Extension of ownership and responsibility that the holder of the certificate of conformity extends to a natural or moral person established in national territory, which he designates.

#### 5.2.2 Extension or modification or reduction of the certificate of conformity

Modification to the scope of the certificate of conformity during its validity, regarding models, country of origin, country of origin, tariff fraction, accessories and / or domicile, as long as it complies with the requirements of this Official Mexican Standard.

#### 5.2.3 Cancellation of the certificate of conformity

Action derived from the breach of this Official Mexican Standard or the certification scheme under which the certificate of conformity was issued.

#### 5.2.4 Marketing

It is the making available (placing on the market) of microwave equipment manufactured in the States United Mexican States or imported from a third country with a view to distribution, leasing and / or use in National territory.

The placing on the market can be carried out either by the marketer or manufacturer, or by the representative in the United Mexican States of any of them.

This placing on the market refers to each individual microwave equipment that physically exists and finished, regardless of when or where it was manufactured and whether it is a microwave equipment manufactured in series or in units.

Microwave equipment manufactured, imported, marketed, microwave equipment that offered by catalog, internet or subject to a lease in the territory of the United Mexican States Within the scope of this Official Mexican Standard, they must demonstrate their compliance with in accordance with this PEC.

#### 5.2.5 Quality control system certificate

The document by which a certification body for quality management systems accredited records that a certain manufacturer meets the requirements established in the NMX-CC-9001-IMNC-2015 or the one that substitutes it, and that includes, within its scope, the production lines of the microwave equipment to be certified.

#### 5.2.6 Distributor

Natural or legal person who habitually or periodically offers or distributes, sells, leases or grants the use or enjoy microwave equipment, which must assume all the manufacturer's obligations in the territory national.

#### 5.2.7 Technical documentation of the equipment

Set of documents produced by the manufacturer that describe the microwave equipment that is you want to certify.

#### 5.2.8 Manufacturer

Natural or legal person responsible for the development of the microwave equipment, from its design to its manufacture, or who transforms or modifies a microwave equipment and / or system, or changes the intended use

thereof, in order to market it in the United Mexican States on its own account, in compliance with this Official Mexican Standard.

#### 5.2.9 Family of microwave equipment

Set of common design models, construction, parts or essential sets that ensure the compliance with applicable requirements.

All models that are included in the family typically have a design, construction, parts, or common essential assemblies to ensure compliance with applicable requirements.

#### 5.2.10 Report of results

It is the document issued by an accredited and approved testing laboratory, through which it makes record the results obtained from tests carried out on an equipment and / or system, in accordance with the specifications established in this Official Mexican Standard.

#### 5.2.11 Report on the quality control system of the production process

Document prepared by a quality management systems certification body to make record that the quality control system applied to a certain production line includes evaluation and verification procedures for compliance with this Official Mexican Standard.

#### 5.2.12 Lot (or batch)

Identifiable set of products from which the sample is taken for evaluation and thus determine its pursuant to this Official Mexican Standard.

Each batch must consist of products of the same type, model, brand, class, size and composition, manufactured under essentially the same design and construction conditions in the same weather.

#### 5.2.13 Sample type

Representative microwave equipment specimen or specimens under the certification scheme concerned.

#### 5.2.14 NOM

This Official Mexican Standard.

#### 5.2.15 Certification Body (OC)

Legal person accredited and approved, in accordance with the Federal Law on Metrology and Standardization, to certify that microwave equipment does or does not comply with this Official Standard Mexican.

#### 5.2.16 Certification body for quality management systems

Legal entity accredited in accordance with the Federal Law on Metrology and Standardization and its Regulation, to certify quality control systems of a certain production line of a organization.

#### 5.2.17 Type tests

Selection and laboratory tests (accredited and approved or recognized) of one or more products that are representative of a common design, with the purpose of verifying that the product or products are conforming to relevant or pertinent requirements established in this NOM for certification purposes or tracing.

#### 5.2.18 Monitoring

Conformity assessment activities or procedures, such as: sampling, measurement, testing laboratory, ocular verification or examination of documents, to which the products are subject with respect to

which was granted a certificate of conformity, to verify that they continue to comply with the conditions and requirements under which they were certified and, therefore, to maintain the validity of the respective certificate of conformity.

#### 5.2.19 Suspension of the Certificate of Conformity

Action derived from the breach of this Official Mexican Standard or the certification scheme under which the certificate of conformity was issued.

#### 5.2.20 Validity of the certificate of conformity

Certificates of conformity are valid when issued by certification bodies accredited and approved, or by the Ministry of Economy, during its validity must demonstrate compliance with this Official Mexican Standard and with the requirements of the evaluation procedure of the corresponding conformity.

#### 5.3 Preparatory phase of applications for certification services

To obtain the Certificate of Conformity or access any certification service, applicants or interested parties (manufacturer and / or marketer and / or importer and / or distributor and / or supplier) must adhere To the next:

5.3.1 Request the OC the procedures, requirements, rules or information necessary to start the service corresponding certification;

5.3.2 The CB must provide the applicant or interested party with the following:

- a) Request for certification services;
- b) Information about the procedures, requirements and rules to grant, maintain, expand, reduce, suspend and cancel the certificate of conformity;
- c) Information about the certification process related to each certification scheme of microwave equipment;
- d) List of documents required according to Appendix B (Normative), as well as the complete list from subcontracted testing laboratories, and
- e) Service provision contract.

5.3.3 In the case of certification requests (by model, by family or extensions that require a laboratory results report), the applicant must choose a testing laboratory, in order to laboratory test a sample type.

The tests are carried out under the responsibility of the applicant for certification, the tests and the certification body that recognizes the report of said results.

5.3.4 Once the applicant or interested party has analyzed the information provided by the CB submits the request and the service provision contract signed by the legal representative and / or attorney of the company requesting certification services.

To accredit said representation, a simple copy of the constitutive act or power of attorney must be presented of said representative, and a copy of official identification.

The contract requirement and any administrative documentation are presented by sole occasion, unless the original conditions or persons change when signing the contract.

5.3.5 Nationals of other countries with whom the Mexican government has signed an agreement or free trade agreement, must attach to the certification request, the service provision contract

that you celebrate with the OC, a simple copy of the document of the legal constitution of the legal entity that requests the service, accompanied by its corresponding translation into Spanish and, in the case of natural persons, a copy Simple of an official photo ID or badge.

5.4 Evaluation phase of requests for certification services and, where appropriate, granting of certification

5.4.1 To obtain the Certificate of conformity by a CB, the following is followed:

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5.4.1.1 The applicant or interested party must deliver the requirements or documentation to the CB, as appropriate, said body verifies that the necessary information and requirements are presented; additionally the applicant or interested party must add a written statement, under protest to tell the truth, stating the category of the equipment or system that presents, whether new, reconditioned, second line, discontinued, rebuilt, used or second hand.

In the event that a deficiency is detected in the requirements or documentation presented, the CB must deliver a certificate that clearly indicates the deficiency that the applicant must correct and You can return to the interested party the documentation and requirements presented.

Certificates of product conformity are issued by microwave equipment or equipment family and / or systems.

Such certificates of conformity may be held by natural or legal persons who are Mexican or manufacturers from other countries, with legal representation in the United Mexican States, these they can grant the extension of the ownership of the Certificate of conformity to a legally representative established in national territory.

5.4.1.2 The response time of the certification services must be within a maximum period of five business days for new electronic equipment or systems, and 20 business days for electronic equipment or second-line, discontinued, rebuilt, reconditioned, used or second-hand systems.

5.4.1.3 In the event that, during the analysis stage of the applications, the CB issues a statement in the to report deviations in the documentation or requirements presented, the applicant has a period of 60 calendar days, from the day after it has been notified to correct the deviations.

In the event that the deficiencies manifested have not been remedied, within the established period, the OC generates a record stating the reason why you did not grant the certification or service of corresponding certification, terminating the process.

In the event that the microwave equipment does not comply with this Official Mexican Standard, the OC generates a document, stating the reason for the breach.

Certificates of conformity are issued by microwave equipment or equipment family of microwave oven.

Such certificates of conformity may be held by natural or legal persons who are Mexicans or nationals of other countries with which the Mexican government has signed an agreement or free trade agreement, they can grant the extension of ownership to a legally representative established in national territory.

## 5.5 Equipment certification schemes

### 5.5.1 General

To obtain the Certificate of Conformity for microwave equipment, the applicant can choose to the certification schemes described in 5.5.2.1 and 5.5.2.2.

The certification of microwave equipment in the different certification schemes will be the one chosen by the interested, according to their own conditions and convenience, where appropriate, can be applied contemplating different factories, as long as they meet the corresponding family grouping criteria, this in accordance with the provisions of Appendix E (Normative) of this document.

### 5.5.2 Certification schemes

5.5.2.1 Certification scheme with monitoring of microwave equipment at the point of sale (marketing) or factory or warehouse.

This certification scheme is based on the type testing procedure for both initial certification as in product monitoring, which are carried out at the point of sale or in the marketing or factory or cellar, is based on the type test procedure. An accredited and approved CB must control the

compliance with the type test and issue a Certificate of conformity. This system must consider the following aspects:

The requirements to meet to enter the microwave equipment certification application are the following:

a) Technical documentation (Appendix B (Normative)).

b) Standard results report issued by an accredited test laboratory and approved pursuant to number of standard samples provided in this NOM.

In addition to the report of results, a letter of commitment must be delivered, indicating and assuming the responsibility that the sample presented is representative of the microwave equipment to be certified.

The interested party is responsible for reporting any changes in the microwave equipment, once be certified. The interested party may choose to submit samples in duplicate for use as a sample witness to be used in case of doubt or to carry out type tests again.

c) Certification request.

Based on the above requirements, the CB proceeds with the equipment certification process for microwave, for which you must do the following:

1) Evaluation of the results report and the rest of the requirements;

2) Decision on certification;

3) Authorization to use the certificate of conformity and the use of the OC mark;

4) During the validity of the certificate of conformity, the interested party must choose one of the 2 options Follow-up tracking provided by the CB:

- i. Follow-up with type tests, this must be carried out before the ninth month after the issues the Certificate of Conformity;
- ii. Two follow-ups with partial tests, testing a sample type, the first must be performed before the sixth month and the second before the tenth month after the Certificate of accordance;

In the case of a family of microwave equipment, at least one representative model must be tested thereof during the validity of the Certificate of Conformity, other than the same model that was submitted to tests in the initial certification (the country of origin or the country of origin or the model may vary, for example), and

5) For follow-up, the sample is taken at random in the factory or warehouse or at the point of sale. This certification scheme does not apply to second line, discontinued, rebuilt microwave equipment, reconditioned, used or second hand.

5.5.2.2 Certification scheme with monitoring of microwave equipment at the point of sale (marketing) or factory or warehouse and the traceability system

This certification scheme is based on type tests for initial certification and on monitoring traceability system.

Accredited and approved CB controls compliance with type test and traceability system (previous visit) and issues a Certificate of conformity.

The requirements to meet to enter the microwave equipment certification application are the following:

- a) Technical documentation (Appendix B (Normative)).
- b) Standard results report issued by an accredited test laboratory and approved pursuant to number of standard samples provided in this NOM.

In addition to the report of results, a letter of commitment must be delivered, indicating and assuming the responsibility that the sample presented is representative of the microwave equipment to be certified.

The interested party is responsible for reporting any changes in the microwave equipment, once be certified.

The interested party may choose to submit samples in duplicate for use as a control sample for be used, in case of doubt or to carry out type tests again.

- c) Certification request.
- d) Report on the traceability system (Appendix D (Normative)).

Based on the above requirements, the CB proceeds with the equipment certification process for microwave, for which you must carry out the following:

- 1) Report on the equipment's traceability system;
- 2) Evaluation of the results report;
- 3) Decision on certification;

- 4) Authorization to use the Certificate of Conformity;
- 5) During the validity of the Certificate of Conformity, the interested party must choose one of the 2 options

Follow-up tracking provided by the CB:

- i. Follow-up with type tests, this must be carried out before the ninth month after the issues the Certificate of Conformity;
- ii. Two follow-ups with partial tests, testing a sample type, the first must be performed before the twelfth month and the second before the twenty-second month from which the Certificate of conformity.

In the case of a family of microwave equipment, at least one representative model must be tested thereof during the validity of the Certificate of Conformity, other than the same model that was submitted to tests in the initial certification (the country of origin or the country of origin or the model may vary, for example).

For both the model and family modality, at least one monitoring system is carried out traceability to the twelfth month after the issuance of the Certificate of conformity of the product, according to Appendix D (Normative).

- 6) For follow-up, the sample is taken at random in the factory or warehouse or at the point of sale.

This certification scheme does not apply to discontinued second-line microwave equipment, rebuilt, reconditioned, used or second hand.

#### 5.6 Use of the official password

5.6.1 Once the applicant or interested party demonstrates that their microwave equipment complies with the corresponding certificate of conformity in the terms of this Official Mexican Standard, you can place the official password if you have complied with the provisions of 5.5, being able to display it either electronically or physical, at least until such time as it is acquired by the consumer in the national territory.

5.6.2 The use of the official NOM password must comply with the design characteristics as indicated in NOM-106-SCFI-2017 or the one that replaces it.

#### 5.7 Validity of certificates of conformity

The validity and validity of the Certificate of Conformity is conditioned on compliance and maintenance of the conditions under which it was granted.

Based on the above, the following terms are established:

a) The validity of the certificates of conformity obtained through the certification scheme described in 5.5.2.1 it will be up to one year and can be renewed for the same period, based on the result of the follow-up and corresponding renewal procedure.

b) The validity of the certificates of conformity obtained through the certification scheme described in 5.5.2.2 it will be up to two years and can be renewed for the same period, based on the result of the follow-up and corresponding renewal procedure.

The validity of the certificates of conformity is subject to the result of the monitoring. The terms of the The validity and validity of the Certificate of Conformity must be indicated on the certificate.

#### 5.8 Follow-up

The certificates of conformity, as well as the extensions of ownership granted, are subject to visit

of monitoring by the CB in accordance with the microwave equipment certification schemes 5.5.2 and within the validity period of the Certificate of Conformity.

Monitoring is carried out at the expense of the microwave equipment certification holders.

In case of complaint evidencing a breach of microwave equipment, the Additional necessary follow-ups to assess compliance with such microwave equipment.

A detailed follow-up report is issued for each follow-up carried out by the CB, whatever the As a result, it is signed by the representative of the CB, and the holder of the Certificate of conformity if he has intervened. The lack of participation of the holder of the Certificate of conformity in the monitoring or his refusal to sign the report, does not affect its validity. The monitoring reports include:

- t) Name, denomination or business name of the holder of the Certificate of conformity;
- b) Time, day, month and year in which the monitoring begins and ends;
- c) Street, number, population or neighborhood, municipality or territorial demarcation, postal code and entity federation in which the place where the visit is made is located;
- d) When applicable, number and date of the official letter of commission that motivated it;
- and) Name and title of the person with whom the follow-up visit was attended;
- F) Data related to the related products in the follow-up and, where appropriate, the samples selected for test submission;
- g) Data related to the action;
- h) Declaration of the visited, if he wanted to do it, and
- i) Name and signature of those who intervened in the procedure, including those who carried it out.

#### 5.9 Sampling

During follow-up visits, samples are collected in the quantity necessary to carry out the evidence of this Official Mexican Standard.

Samples are selected randomly and by OC staff.

In order to prevent their replacement, the specimens are kept or insured in such a way that it is not possible his violation without leaving a trace.

Samples can be collected from the establishments where the process is carried out or some phase of this, invariably upon written order.

If samples are collected from merchants, manufacturers, producers or importers are notified to that, if they wish, participate in the sampling and in the tests that are carried out.

The samples can be collected in duplicate, remaining, where appropriate, in the possession of the owner of the Certificate of conformity to which the follow-up visit is carried out or under the protection of the OC. In its case, on some of the specimens, the first follow-up tests are made, whose report Results must be presented to the OC within a period not exceeding 30 calendar days after the visit. of follow-up, the report for its issuance must not exceed 7 calendar days after the termination of tests; if it follows that the microwave equipment complies with the NOM, the the same number of specimens and at the disposal of whom has been obtained.

Proceeds in accordance with number 5.8 of this Official Mexican Standard. In case of being required by the holder of the Certificate of conformity, follow-up tests are repeated, on the other both of the specimens, and prior notification of the applicant.

If from the first follow-up visit it is determined, through tests, that the microwave equipment does not comply with this Official Mexican Standard, it proceeds in accordance as indicated below. In case if required by the holder of the Certificate of conformity, the complete follow-up tests are repeated, on the other of the specimens, with prior notification from the applicant.

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The use and evaluation of the second sample must be requested within 7 calendar days following that in which the result of the first sample was known. If not requested, it remains firmly established the result of the first evaluation.

These second tests can be carried out, in the same test laboratory or in another accredited and approved. If in these second tests it is shown that the microwave equipment complies satisfactorily with this Official Mexican Standard, the first result is considered distorted. If not fulfills them, by confirmed.

Expenses arising from monitoring services are charged to the certification holder.

#### 5.10 Suspension and cancellation of certificates of conformity

Certificates of conformity are subject to suspensions or cancellations, in accordance with the provisions of the Federal Law on Metrology and Standardization and its Regulations.

#### 5.11 Renewal of the certificate of conformity

To obtain the renewal of a certificate of conformity in the resulting certification scheme applicable, proceed as follows.

##### 5.11.1 The following documents must be submitted:

- to) Renovation request.
- b) Updating of technical information due to modifications that may have occurred in the microwave equipment and these do not modify their nature or safety.

##### 5.11.2 Renewal is subject to the following:

- to) Have satisfactorily completed the corresponding follow-ups and tests;
- b) That the conditions of the certification scheme are maintained, under which the Certificate was issued of initial compliance.

5.11.3 Once the Certificate of Conformity has been renewed, it is subject to the follow-ups indicated in the microwave equipment certification schemes under which certification was granted, as well as Applicable provisions of this procedure for conformity assessment.

#### 5.12 Extension, modification or reduction of the scope of certification

Once the Certificate of Conformity has been granted, it can be expanded, reduced or modified in its scope, at the request of the certificate of conformity holder, as long as it is demonstrated that the requirements of this Official Mexican Standard, through documentary analysis and, if applicable, evidence of kind.

The owner can expand, modify or reduce in his Certificate of conformity: models, country of origin, country of origin, tariff fraction, accessories, domicile, as long as the requirements of this Official Mexican Standard.

The certificates of conformity that are issued by request for expansion are valid until the same date that the corresponding certificates of conformity.

To expand, modify or reduce the scope of certification, documents must be submitted following:

- a) To extend or modify a model certificate of conformity by model or by family, you must submit the technical documentation of Appendix B (Normative).

b) To expand or modify a certificate of conformity by model or family by 2 or more models, must present the technical documentation of Appendix B (Normative) and comply with the provisions of the Appendix C (Normative).

c) To reduce the scope of models in a certificate of conformity by model or by family, you must to present, request letter signed by the authorized representative.

#### 5.13 Extension of ownership

Only for new microwave equipment and based on the certification scheme with monitoring of the microwave equipment at the point of sale (marketing) or factory or warehouse indicated in 5.5.2.2, the

holders of certificates of conformity, may request to extend the ownership of certificates to Mexican people, whether physical or moral, that they designate. To obtain an extension of ownership, both the holders as the beneficiaries of the extension of the certificates of conformity must accept their co-responsibility. Also, the beneficiaries must establish a contract with the CB, in the same terms that the holder of the Certificate of conformity.

The certificates of conformity issued as a consequence of an extension of ownership remain conditioned as much to the validity and follow-up, as to the acquired co-responsibility.

The certificates of conformity issued as an extension of ownership must contain all of models of the base certificate of conformity.

In case of an extension, modification or reduction of the scope of the certification in the models or accessories of the microwave equipment in the Certificate of conformity of the holder, the extension, modification or reduction in the certificates of conformity issued as an extension of ownership.

In the event that the microwave equipment undergoes any modification, the holder of the Certificate of Conformity must notify the corresponding CB, so that it can be verified that compliance with this Official Mexican Standard. Those individuals who have an extension of ownership lose it automatically if they change the original characteristics of the microwave equipment and do not notify the OC.

The documents that the applicant must present, for the purposes of an extension of ownership, are:

- t) Copy of base Certificate of conformity.
- b) Request for extension of ownership.
- c) Written declaration with autograph signature of the holder of the Certificate of conformity in which it indicates to be jointly and severally liable for the use given to the Certificate of Conformity requested and, where appropriate, that will inform the OC in a timely manner of any anomaly it detects in the use of the Certificate of compliance by its importers, distributors or marketers.
- d) Written declaration with autograph signature of the beneficiary of the extension of ownership, in which you agree to receive the extension of ownership and abide by the terms established in the procedure for the evaluation of the conformity of this Official Mexican Standard.

Holders of the Certificate of Conformity must inform in writing when the relationship with their importers, distributors and marketers to cancel the extensions of the certificates of respective conformity.

## 6.- Verification and Surveillance

The Ministry of Economy and the Federal Institute of Telecommunications, in accordance with their respective powers, will be the bodies responsible for monitoring and verifying compliance with this Standard Mexican Officer.

## 7.- Conformity with international standards

This Official Mexican Standard is not equivalent (NEQ) with any International Standard, since it does not exist the latter at the time of its elaboration.

## Appendix A (Normative)

## Minimum information in the Certificate of Conformity

- The certificates of conformity issued by the CB must contain at least the following information in Spanish:
- Name of the OC.
- Date and place of issue, number or identification of the certification request.
- Certificate number.
- Number of the results report that is taken as the basis for granting the certification.
- Name of the testing laboratory that performed the tests.
- Applicant's name.

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- Tax residence.
- Name of the certified microwave equipment.
- Certified microwave equipment brand.
- Category: new, second-line, discontinued, rebuilt microwave equipment, reconditioned, used or second hand.
- Indicate that this Official Mexican Standard has been taken as the basis for certification.
- Microwave equipment certification scheme.
- In your case, factory address.
- Country of origin or provenance or both.
- Validity of the Certificate of conformity and terms of validity.
- Signatures of staff authorized by the OC.
- Model or model family according to the family grouping criteria.
- Serial or identification number (applies only for batch certification)

## Appendix B (Normative)

## Technical documentation

The holder of the Certificate of conformity must integrate, keep and present to the Certification Body

(OC) an electronic or printed file with the technical documentation of the microwave equipment.

Technical documentation depends on the nature of the microwave equipment and includes the documentation technically necessary to fully identify and demonstrate equipment compliance microwave with applicable particular requirements.

The file must be available to the competent authorities for inspection and control purposes and of CBs for conformity assessment purposes.

Any holder of the Certification of conformity or that responsible for the marketing of a team of microwave in the Mexican market, you must have the file with the technical documentation of manufacturing or have the guarantee of being able to present it as soon as possible in the event of a reasoned request. If deemed appropriate, the certification holder can maintain the documentation file technique.

The certification holder must maintain the technical documentation file during the period that marks the legislation on the matter.

#### B.1 Contents of the technical documentation file of the equipment and / or system

As specified above, the file must contain at least the following elements:

- one) Microwave equipment overview.
- two) Reports of results performed obtained from an accredited and approved testing laboratory.
- 3) Electrical diagrams and / or block diagrams, if required by the certification body for family certification purposes.
- 4) Labeled with electrical specifications.
- 5) Photographs of the microwave equipment or the microwave equipment family.
- 6) Information on the design and manufacturing process, in the case of certification through the quality management of the production line.

#### B.2 Microwave equipment overview

The file with the technical manufacturing documentation must contain all the detailed information with a description of the equipment or system. For this, all the necessary information that helps to understand the type of equipment or system and its safe operation (function of the equipment). Between

necessary documentation, must include, at least, the operating and / or service instruction manual of the equipment or system and technical specifications of the equipment or system.

#### B.3 Total or partial application of the Official Mexican Standard

As stated in this Official Mexican Standard, the equipment and / or system must meet the requirements of Chapter 4.

To ensure compliance with the provisions of Chapter 4 of this Official Mexican Standard, each Microwave equipment must comply with the provisions of Chapter 5.

#### B.4 Design and manufacturing plans, electrical diagrams

That documentation referring to the graphic and / or symbolic representation of the components that integrate the product. May include block diagrams, explosive drawings, diagrams and / or drawings of exploded view, lists of components or electrical diagrams, among others.

#### Appendix C (Normative)

##### Requirements for the approval of the reconstruction or reconditioning manual

###### C.1 Definitions:

###### C.1.1 Owner of the plant

Is that representative of a natural or moral person who owns a reconstruction plant or reconditioning of microwave equipment, in national territory or in those other countries with which the Mexican government has signed a treaty or agreement regarding commercial relations.

###### C.1.2 Reconstruction or reconditioning plant

It is the one that carries out evaluation, repair or renovation activities of microwave equipment that is in national territory or in those other countries with which the Mexican government has subscribed some treaty or agreement on commercial relations.

###### C.2 Procedure

###### C.2.1 The applicant must submit to the CB the application accompanied by the following documents:

Copy of the manual of the reconstruction or reconditioning processes in order to obtain your approval by the CB, which must indicate at least the following:

- t) General Data: Company name of the plant, address, telephone, fax, manual title, scope, microwave equipment, makes and models or codes, the description of the phases of the reconstruction or reconditioning, quality standard on which the manual is based, and data from identification of the manual (name, code, date of issue and, if applicable, date and number of review).
  - b) Description of the Initial Evaluation: how it is reviewed, how the pieces are evaluated and the wear; as it is determined if the equipment and / or system requires replacement of new parts, repair or renovation; what equipment or tools are used and criteria for acceptance or rejection and control of them.
  - c) Description of the Reconstruction or Reconditioning Process: process, inspection phases, measurements and tests, according to the type of microwave equipment in question, statistical controls and quality, listing or catalog references, service manuals, repair information of failures presented and their sequence of solution.
  - d) Indication of the internal codes: that the plant uses to identify the microwave equipment that rebuilds or reconditions in order to track them on the market.
- and) Attach on letterhead the recognition of people and signatures that appear in your manual rebuilding or reconditioning.

C.2.2 To validate the reconstruction or reconditioning process as indicated in the manual, OC staff must make a prior validation visit to the rebuilding or reconditioning plant.

- one) Reconstruction or reconditioning manuals must be approved within 5 days after the completion of the validation visit of the reconstruction manual or reconditioning, as long as there are no deviations, otherwise the approval of the manual.
- two) In case of rejection, the applicant has 30 calendar days to present the corrections of the deviations indicated, otherwise it proceeds to the denial of the approval of the manual.
- 3) The approval of the reconstruction or reconditioning manual is valid for one year from the date of issue and may be subject to renewal after a verification visit to the plant rebuilding or reconditioning.

C.2.3 Extension or modification of the scope of the reconstruction manual approval manual or reconditioning.

The brands and models or keys of the microwave equipment indicated in the approval of the Reconstruction or reconditioning can be expanded by presenting the following information:

- Request to expand the scope of the reconstruction manual approval manual or reconditioning.
- Information that supports the new brand (s), new model (s) or key (s), and the Modifications applicable to the reconstruction or reconditioning manual.

The approval of the reconstruction or reconditioning manual issued by request of extension or modification are effective until the same date as the approval of the reconstruction manual or reconditioning to that they correspond.

#### Appendix D (Normative)

##### Traceability system

Those interested in certifying their microwave equipment under the modality with verification by the traceability system, they must obtain a verification report of the traceability system, issued by the Ministry of Economy or the OC, which guarantees that there are processes that ensure the control of microwave equipment to be certified or certified.

The interested party must enter to the Ministry of Economy or the OC the documentation that shows that it has a traceability system, for its review, as well as the request for verification of the system of traceability of microwave equipment, which consists of a visit to the applicant company, prior to microwave equipment certification in this modality, in which it is validated that it has the processes implemented and has the records listed below.

The result of this visit is valid for the rest of the certification requests for microwave that the requesting company makes in this modality, as long as it is demonstrated that the New microwave equipment is included in the equipment's traceability system. microwave oven.

The processes that must be contained in the verification report of the traceability system are:

##### D.1 Microwave equipment identification process

Set of activities focused on tracking microwave equipment, in such a way that the minus the following records:

- to) Any document that covers the manufacture, acquisition or transfer of the equipment and / or system

(packing list, purchase order, purchase invoice or manufacturing order, etc.) that includes the Next information:

- Description of the equipment and / or system.
- Code, model or identification (type) of the equipment and / or system.
- Quantity.
- Supplier or manufacturer of the equipment and / or system, when applicable.

b) Certificate of conformity or quality of microwave equipment, as applicable.

#### D.2 Documented process of microwave equipment

Set of activities focused on systematically controlling security specifications microwave equipment that includes at least the following:

- Appoint responsible personnel with authority for the development of the process.
- Definition of acceptance and rejection criteria.
- Control and inspection records of equipment and / or system.
- Registration and disposal of non-conforming microwave equipment.

#### D.3 Documented process and records of changes or modifications to microwave equipment

Set of activities focused on identifying any change or modification of the microwave equipment, including:

- a) Conditions of operation and safety of microwave equipment, conditions of use or application.
- b) Changes or modifications must be notified to the Ministry of Economy or the OC.

D.4 Process and records of distribution of microwave equipment for purposes of visits of monitoring, and eventual recovery of equipment and / or non-conforming system.

Set of activities focused on tracking the distribution of the equipment and / or system (first level of the distribution chain), whose records include at least the following:

- Description of the microwave equipment.
- Code, model or identification of the microwave equipment.
- Quantity.
- Recipient of the microwave equipment, or place where it is marketed or leased, when apply.

D.5. Microwave equipment registration and handling process for equipment complaints and claims and / or system

Set of activities focused on:

- Keep a record of all complaints filed.

- Take appropriate action regarding such complaints.
- Document the actions taken.

The verification of the processes is done through the staff of the Ministry of Economy or the OC.

#### Appendix E (Normative)

##### Grouping of microwave equipment as a family of microwave equipment

Microwave equipment models are considered to be from the same family, as long as they comply with the following conditions:

##### E.1 General

- Be of the same brand and / or manufacturer.

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- Be of the same type of microwave equipment.
- Have the same supply voltage, frequency and the same elements that make up the source power supply, when applicable, which must be verified by the electrical diagram or technical information to support it.
- The equipment or systems must have the same current consumption or have a tolerance of 20%, between the models with the highest and lowest consumption for those equipment or systems that they feed from the electrical network, and in those equipment or systems that are powered by batteries, as long as they continue to meet the tests for heating, dielectric strength, shock electrical, stability and mechanical resistance.
- You can allow the change of plastic parts for metal parts, which may have contact with the user, as long as the different models comply with the tests against electric shock and warm up.
- Insulating, thermal and electrical materials must be of the same type and capacity of operation.
- Mechanical clamping systems must be of the same type and strength.
- Light indicators, switches and knobs can be included as variables of the same model, as long as the microwave equipment meets the other criteria.
- Same class of product.

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