MINIMUM QC REQUIREMENTS FOR RE-HOMOLOGATION PROCESS FOR KARTING RACING SUITS ACCORDING TO CIK-FIA N 2013-1

1. Foreword

According to the **CIK-FIA N 2013-1 STANDARD,** manufacturers choosing option 1 for re-homologating their products need to present to their ASN a re-homologation application template and all the documentation necessary to prove that its continuous quality control system complies with the requirements that are available upon request. This document details the minimum quality control system necessary for the QC to be accepted for re-homologation as well as the documentation to be submitted.

For clarity purposes, it has been deemed useful to specify the meaning of several expressions that will be used in this document and during the assessment process:

To MAINTAIN OBJECTIVE EVIDENCE refers to the manufacturer being able to provide justification that what was planned has actually been done. It is not necessary to keep records of the actual values but it must be possible to demonstrate that the controls have been carried out.

To RETAIN DOCUMENTED INFORMATION refers to the manufacturer keeping records of the data of the checks (with values).

To MAINTAIN DOCUMENTED INFORMATION refers to the manufacturer being able to provide justification of documented processes and controls. This could be in the form of explicative documents but it could also be for example videos of the processes or photographs.

2. Minimum requirements

2.1 Processes control

In order for the QC system to be acceptable, the company must maintain objective evidence of the following:

- Procurement process control
- Client order review and control
- Production order review and control
- Staff training (including new staff)
- Internal audits

In addition, the company must maintain documented information of the following:

- Production processes including drawing controls and process change records
- Non-conformities management

2.2 Traceability of the materials and components

The QC system must ensure that key raw materials and components for the product can be traced for each item produced. Documented information on the traceability must be retained.

Key materials are those that could directly affect the outcome of any of the tests defined in section 2.4. In the case of karting racing suits according to CIK-FIA N 2013-1, the following groups of materials as a minimum are considered key materials:

- Fabrics,

Given an FIA hologram number, it must be possible to identify the batches of the key raw materials used in that specific karting racing suit.

2.3 Control of 100% of the product before delivery

The QC system must include some controls of each item produced. In the case of CIK-FIA N2013-1, for each unit of karting racing suit (100% of the products) it is necessary to maintain objective evidence of the following checks:

- Visual inspection.

2.4 Random testing of materials, components and/or final products

In order to control the final product performance it is compulsory that the QC system includes a random checking and testing programme to confirm that the production still complies with the requirements of the standard. Some of these controls can be performed in the raw materials or in semi-finished products.

For CIK-FIA N 2013-1 karting racing suits it is necessary to perform and retain documented information of at least the following tests:

- One test for every material batch:
    - Resistance to abrasion test equivalent to the one defined in Art. 2.4.4 of the CIK-FIA N 2013-1;
    - Resistance to contact heat test equivalent to the one defined in Art. 2.4.6 of the CIK-FIA N 2013-1;
- One sample every the equivalent of 1000 karting racing suits or every 2.5 years (whichever happens first):
    - Resistance to tearing test equivalent to the one defined in Art. 2.4.3 of the CIK-FIA N 2013-1;
    - Tensile strength test equivalent to the one defined in Art. 2.4.5 of the CIK-FIA N 2013-1;

These tests can be done internally in the manufacturer's facilities or externally. It is not necessary to use an FIA-approved test house.

The FIA also recommends to perform tests equivalent to the one defined in Art. 2.4.7 of the CIK-FIA N 2013-1 every the equivalent of 1000 karting racing suits or every 2.5 years (whichever happens first);

3. Documentation to be provided for re-homologation

When applying for re-homologation using option 1, the manufacturer must submit to its ASN the Re-homologation Application Template and, in order to explain and declare its QC system, it must also submit the following information depending on whether or not the manufacturer is certified according to ISO 9001:2015.

3.1 Manufacturers not certified according to ISO 9001:2015

- Declaration, in a company letterheaded document, filled in and signed, in accordance with:
    - Appendix I Processes control;
    - Appendix II Traceability of the materials and components;
    - Appendix III Traceability of FIA hologram numbers;
    - Appendix IV Controls performed to 100% of products;
    - Appendix V Random testing programme.
- Flow chart indicating when the controls declared in Appendix IV and Appendix V are done during the production process.

3.2 Manufacturers certified according to ISO 9001:2015

- Copy of a valid ISO 9001:2015 certificate
- Declaration, in a company letterheaded document, filled in and signed, in accordance with:
    - Appendix III Traceability of FIA hologram numbers;
    - Appendix IV Controls performed to 100% of products;
    - Appendix V Random testing programme.
- Flow chart indicating when the controls declared in Appendix IV and Appendix V are done during the production process.

4. Review and audits

During the process of assessing the re-homologation request, the FIA reserves the right to request examples of the evidence and documented information required in section 2 of this document.

In addition, and as provided in Art. 1.5 of the CIK-FIA N 2013-1, the FIA reserves the right to perform audits to confirm that the manufacturer follows the quality control and during which the manufacturer may be requested to demonstrate the veracity of its declaration and provide justification and records of the controls requested.

Appendix I Processes control

This declaration shall be supplied on letterhead of the applicant company and signed (full name and position within the company required).

Mr/Ms Full name as Position in the company at Company name (the company) declares that the management of the company ensures that quality objectives have been defined and communicated through the company. The company follows a Quality Management System in order to ensure that production and procurement are carried out under controlled conditions and to ensure that the final product conforms to the requirements of the CIK-FIA standard for which they are homologated.

The company maintains objective evidence of the following:

- Procurement process control
  The company has processes in place to ensure that the products and services incorporated in the final product and supplied externally comply with the requirements and specification of the original homologated product.

- Client order review and control
  The company reviews the products that are going to be offered to customers in order to ensure that the requirements of CIK-FIA N 2013-1 are still complied with and that no modification has been made with respect to the originally homologated product without authorization by the CIK-FIA.

- Production order review and control
- Staff training (including new staff)
- Internal audits

In addition, the company maintains documented information of the following:

- Production processes including drawing controls and process change records
- Non-conformities management

This Quality Management System has been in place in the company since YEAR-MONTH when the controls start

Signature

Date: Signature DATE

Appendix II Traceability of the materials and components

This declaration shall be supplied on letterhead of the applicant company and signed (full name and position within the company required).

Mr/Ms Full name as Position in the company at Company name (the company) declares that the company retains documented information that allows all key materials of the products to be traced including information on the following:

- Supplier,
- Purchase date,
- Batch number,
- Controls or checks performed on arrival at the company.

It is possible to link this information to a unique identification of each product so that, given the number of the FIA hologram used on a karting racing suit, the manufacturer is able to provide the above information on the following materials used in that specific karting racing suit:

- Fabrics;

This traceability system has been in place in the company since YEAR-MONTH when the controls start

Signature

Date: Signature DATE

Appendix III Traceability of FIA hologram numbers

This declaration shall be supplied on letterhead of the applicant company and signed (full name and position within the company required).

Mr/Ms Full name as Position in the company at Company name (the company) declares that given the number of the FIA hologram used on a specific karting racing suit, the company will be able to provide the batch number of the following materials used in that specific karting racing suit:

- Fabrics;

This traceability system has been in place in the company since YEAR-MONTH when the controls start

Signature

Date: Signature DATE

Appendix IV Controls performed on 100% of products

This declaration shall be supplied on letterhead of the applicant company and signed (full name and position within the company required).

Mr/Ms Full name as Position in the company at Company name (the company) declares that the below information is descriptive of the controls carried out on every unit of karting racing suit produced according to CIK-FIA N 2013-1.

Controls	
Visual inspection	Yes

Objective information of these controls is maintained and can be provided if necessary.
These controls have been in place in the company since YEAR-MONTH when the controls started

Signature

Date: Signature DATE

Appendix V Random testing programme

This declaration shall be supplied on letterhead of the applicant company and signed (full name and position within the company required).

Mr/Ms Family name as Position in the company at Company name (the Company) declares that the below information is descriptive of the random tests done during the production of karting racing suits according to CIK-FIA N 2013-1.

Tests		How often?				Where are the tests done?
Resistance to abrasion test equivalent to the one defined in Art. 2.4.4 of the CIK-FIA 2013-1		Select number of tests	tests every	Select the frequency	Selec frecuency scale	Select where th
Resistance to contact heat test equivalent to the one defined in Art. 2.4.6 of the CIK-FIA 2013-1		Select number of tests	tests every	Select the frequency	Selec frecuency scale	Select where th
Resistance to tearing test equivalent to the one defined in Art. 2.4.3 of the CIK-FIA 2013-1		Select number of tests	tests every	Select the frequency	Selec frecuency scale	Select where th
Tensile strength test equivalent to the one defined in Art. 2.4.5 of the CIK-FIA 2013-1		Select number of tests	tests every	Select the frequency	Selec frecuency scale	Select where th

Documented information of these controls is retained and can be provided if necessary.
These controls have been in place in the company since YEAR-MONTH when the controls start

Signature

Date: Signature DATE