

# POSITION PAPER 05/11/2021

# FIEC amendments' proposals to the Machinery Products Regulation COM(2021)202 FINAL

### Article 3 paragraph (16) – Definition of substantial modification

Commission's proposal:	FIEC proposed amendment:
'substantial modification' means a	'substantial modification' means a change of
modification of a machinery product, by	a specific application of a machinery product,
physical or digital means after that machinery	by physical or digital means after that
product has been placed on the market or put	machinery product has been placed on the
into service, which is not foreseen by the	market or put into service, which is not
manufacturer and as a result of which the	foreseen or planned for by the manufacturer
compliance of the machinery product with	and as a result of which the compliance of the
the relevant essential health and safety	machinery product with the relevant essential
requirements <b>may be</b> affected;	health and safety requirements are affected;

#### Justification:

In principle, a definition of "substantial modification" is useful.

However, it must be prevented in any case that every "modification/change/alteration" to a machine or to a machinery product is equivalent to a substantial modification. The proposed definition of substantial modification might lead to a massive increase of the amount of such modifications. New conformity assessments will become mandatory for digital modifications which are aimed to lead to an increased level of safety and will have an important impact on the employer's organisation.

In practise, for example, the digital modification/update of safety devices and the installation of safety devices which do not enable any additional functions, that inevitably lead to an increase of the level of safety of the machine, shall not be considered as substantial modifications, and shall not require the intervention of a third party.

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Example<sup>1</sup>:

The machine is safe even after modification without additional protective measures.	There is <b>no</b> significant change.
The machine is no longer safe after the modification without additional protective measures. The new hazard or the increased risk can be eliminated or at least sufficiently minimised by simple protective devices.	There is <b>no</b> significant change.
The machine is no longer safe after the modification without additional protective measures and a sufficient risk reduction cannot be achieved by simple protective devices.	There <b>is</b> a significant change.

#### Article 7 – Requirements for machinery products

Commission's proposal:	FIEC proposed amendment:
Machinery products shall only be made	Machinery products shall only be made
available on the market or put into service if,	available on the market or put into service if,
where properly installed and maintained and	where properly installed and maintained and
used for their intended purpose or under	used for their intended purpose or under
conditions which can reasonably be foreseen,	conditions which can reasonably be foreseen
they meet the essential health and safety	taking into account foreseeable misuse, they
requirements set out in Annex III.	meet the essential health and safety
	requirements set out in Annex III.

#### Justification:

It has been proven that serious accidents occur time and again in the EU due to misuse of machinery. The foreseeable misuse is to be applied in depth in planning, design and construction and the accompanying risk assessment. Market monitoring must be expanded to include the aspect of foreseeable misuse.

<sup>1</sup> BMAS, 01.03.2015 - IIIb5-39607-3 - in GMBI 2015, Nr. 10, S. 183-186 (<u>https://www.bmas.de/DE/Arbeit/Arbeitsschutz/Produktsicherheit/interpretationspapierwesentliche-veraenderung-von-maschinen.html</u>)

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#### **ANNEX I – High-risk machinery products**

Commission's proposal: § 24 "Software ensuring safety functions, including AI systems"	FIEC proposed amendment: deleted
Commission's proposal: § 25 "Machinery embedding AI systems ensuring safety functions"	FIEC proposed amendment: deleted

#### Justification:

We believe that it is disproportionate to introduce a concept of high risk <u>by default</u> for all AI technologies with additional requirements for new technology machinery and introduction of 3<sup>rd</sup> party conformity assessment.

The risks posed by some of these techniques and concepts can be reliably assessed using currently available and proven methods. These include, for example, deductive, more knowledge-based (symbolic) techniques and concepts such as the statistical approaches and Bayesian estimation, search and optimisation methods mentioned in Annex I c) of the proposed AI regulation.

Such artificial intelligence (AI) techniques and concepts are already used today for safety-relevant functions of machines, evaluated and safely placed on the market without the involvement of notified bodies. It is therefore also not necessary in future to involve a notified body in the conformity assessment for the techniques and concepts listed in Annex I c) of the Commission proposal for a regulation on artificial intelligence.

#### ANNEX I – High-risk machinery products => full alternative proposal

As a full alternative to the new Annex I, FIEC proposes the following:

The new Annex I should cover all products listed in the Regulation's scope of application.

A classification would be made according to 3 risk categories (i.e. similar to the EU Regulation 2016/425 on Personal Protective Equipment). If the machine is designed and a risk assessment is carried out, a residual risk remains at the end. The classification into the 3 risk categories results from the remaining residual risk. All operating states / life cycles / life phases must be taken into account (maintenance, servicing, assembly, disassembly, operation, etc.). The basis for determining risks and the remaining residual risks are the EHSR. Reasonably foreseeable misuse must also be included. Furthermore, the residual risks are to be defined based on the contents of other directives such as the Low Voltage Directive (2014/35/EU), for instance. Risks cumulating from this are to be defined. Again, the remaining residual risks are used for classification.

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Classification:	Corresponding conformity assessment
	procedure:
Category I	Internal production control in accordance with
It shall include all residual risks with minor	Annex VI or Annex VIII
injury potential such as:	
a) superficial mechanical injuries	
b) contact with slightly aggressive working	
substances	
c) brief contact with hot surfaces whose	
temperature does not exceed 60 °C	
Category II	Full quality assurance in accordance with Annex
It shall include all residual risks that are not	IX
listed under Category I or Category III	
Category III	EU type-examination according to Annex VII or
It shall include all residual risks which may lead	application / taking into account the
to very serious consequences such as death or	harmonised standards
irreversible damage to the health of operators	e.g. In the case of a circular saw, work must be
and third parties.	carried out on the open circular saw blade,
Safety components would fall into Category III.	which automatically places it in category III.

#### ANNEX III – EHSR

#### Paragraph 1.2.1. Safety and reliability of control systems

Commission's proposal:	FIEC proposed amendment:
(d) the safety functions cannot be changed	(d) the safety functions cannot be changed
beyond the limits defined by the manufacturer	beyond the limits defined by the manufacturer
in the machinery product risk assessment. The	in the machinery product risk assessment. The
establishment of the limits of the safety	establishment of the limits of the safety
functions shall be part of the risk assessment	functions shall be part of the risk assessment
performed by the manufacturer, including any	performed by the manufacturer, including any
modifications to the settings or rules generated	modifications to the settings or rules generated
by the machinery product or by operators,	by the machinery product or by operators,
covering also the learning phase, which cannot	covering also the learning phase, which cannot
go beyond the limits addressed in the risk	go beyond the limits addressed in the risk
assessment;	assessment; the safety functions upgrades are
	part of the limits defined by the manufacturer;

#### Justification:

The limits of the safety functions are part of RA of the manufacturer. Therefore, important machinery changes will be part of the substantial modification criteria. With this wording, important changes or safety updates will be impossible without the original manufacturer. Safety updates lead to an increased level of safety of the machine and are aimed to improve the machinery working conditions. These situations should not be considered as substantial modifications. See our comments on this in Art. 3 (16).

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Commission's proposal:	FIEC proposed amendment:
(f) the tracing log of the data generated in	(f) the tracing log of the data generated in
relation to an intervention and of the versions	relation to an intervention and of the versions
of safety software uploaded after the	of safety software uploaded after the
machinery product has been placed on the	machinery product has been placed on the
market or put into service, is enabled for five	market or put into service, is enabled for five
years after such upload, exclusively to	years after such upload by the manufacturer or
demonstrate the conformity of the machinery	software provider, exclusively to demonstrate
product with this Annex further to a reasoned	the conformity of the machinery product with
request from a competent national authority;	this Annex further to a reasoned request from a
	competent national authority;

#### Justification:

This provision is addressed directly to the manufacturer or software provider. In this respect, this must be specified in the text of the regulation.

Commission's proposal:	FIEC proposed amendment:
(g) recording of data on the safety related	(g) recording of data on the safety related
decision-making process after the machinery	decision-making process after the machinery
product has been placed on the market or put	product has been placed on the market or put
into service, is enabled and that such data is	into service, is enabled and that such data is
retained for one year after its collection,	retained for one year after its collection by the
exclusively to demonstrate the conformity of	manufacturer or software provider, exclusively
the machinery product with this Annex further	to demonstrate the conformity of the
to a reasoned request from a competent	machinery product with this Annex further to a
national authority.	reasoned request from a competent national
	authority.
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Justification:

Same as above.

#### ANNEX III – EHSR

#### Paragraph 1.7.4. Instructions

Commission's proposal:	FIEC proposed amendment:
()	()
The instructions may be provided in a digital	The instructions may be provided in a digital
format. However, upon purchaser's request at	format. However, upon purchaser's request at
the time of the purchase of the machinery	the time of the purchase of the machinery
product, the instructions shall be provided in	product, the instructions shall be provided in
paper format free of charge.	paper format free of charge.
When the instructions are provided in digital	When the instructions are provided in digital
format, the manufacturer shall:	format, the manufacturer shall:

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(a) mark on the machinery product and in an	(a) mark on the machinery product and in an
accompanying paper how to access the digital	accompanying paper how to access the digital
instructions;	instructions;
(b) clearly describe which version of the	(b) clearly describe which version of the
instructions corresponds to the machinery	instructions corresponds to the machinery
product model;	product model;
(c) <b>be presented</b> in a format that makes it is	(c) <b>provide the instructions</b> in a format over the
possible for the end user to download the	whole lifecycle of the machinery product and
instructions and save them on an electronic	in all the different versions that makes it is
device so that he or she can access them at all	possible for the end user to download the
times, in particular during a breakdown of the	instructions and save them on an electronic
machine. This requirement also applies to a	device so that he or she can access them at all
machinery product where the instruction	times, in particular during a breakdown of the
manual is embedded in the software of the	machine. This requirement also applies to a
machinery product.	machinery product where the instruction
	manual is embedded in the software of the
	machinery product.

#### Justification:

Machinery will be delivered with digital instructions only. The digitalisation aspects are welcome. This new requirement has an important impact on the relevance and availability of instruction manuals in the whole lifecycle of the machinery.

However, the wording "how to access the digital instructions" is not clear enough and need precisions in relation to longevity and availability. Manufacturer's companies often update their websites. It may be very difficult to find the instruction guide in the successive versions of each manufacturer's website. There should be more requirements to ensure the accessibility of digital instructions over the lifecycle of the machinery products.

#### ANNEX III – EHSR

#### Paragraph 1.7.4.2. Contents of the instructions

Commission's proposal:	FIEC proposed amendment:
(c) the EU declaration of conformity, or a	(c) the EU declaration of conformity, or a
document setting out the contents of the EU	document setting out the contents of the EU
declaration of conformity, showing the	declaration of conformity, showing the
particulars of the machinery product, not	particulars of the machinery product, not
necessarily including the serial number and the	necessarily including the serial number and the
signature, or the internet address where the EU	signature, or the internet address where the EU
declaration of conformity can be accessed;	declaration of conformity can be accessed over
	the whole lifecycle of the machinery product;

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#### Justification:

According to this proposal, EU declaration has not to be attached to the machinery. This will have a huge impact on the availability of this key document of the machinery during all its lifetime and all successive uses in different construction jobsites. The validity of the internet address should be specified. The URL shall be active all the lifetime of the machinery. There should be more requirements to ensure the accessibility of digital documents over the lifecycle of the machinery products.

#### ANNEX III – EHSR

#### Paragraph 3.2.2. Seating

Commission's proposal:	FIEC proposed amendment:
()	()
A visual <b>or</b> audible signal shall be provided at	A visual and audible signal shall be provided at
the driving position alerting the driver when the	the driving position alerting the driver when the
restraint system is not active.	restraint system is not active.

#### Justification:

This specific requirement is a real great progress to improve safety and enhance the state of the art. This proposal is welcome but not sufficient. Indeed, a visual signal alone is not sufficient for the driver to be alerted.

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