

VOTING RESULTS - UNIQUE ACCEPTANCE PROCEDURE

FprEN 45501:2011 Text prepared by CEN/CLC/JWG NAWI <i>Title :</i> Metrological aspects of non-automatic weighing instruments	<i>Submission</i> : 2011-11-11 <i>Deadline</i> : 2012-04-13 <i>Subsector</i> : V02 <i>Project</i> : 21602 <i>TC(s)</i> : CEN/CLC/JWG NAWI <i>Directive(s)</i> : NAWI (2009/23/EC), EMC related (2004/108/EC) <i>Mandated</i> : M/412 <i>Supersedes</i> : EN 45501:1992
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Results **Countries** (* = with comments, ** = no answer received at CS)

ACCEPTANCE : BG,CZ,FI,FR*,IS,IT*,LT,PL,RO*,SK*

REJECTION : AT*,CH*,DE*,ES*,GB*

Abstention : BE**,CY,DK,EE,GR,HR,HU**,IE**,LU**,LV,MT,NL,NO**,PT,SE,SI

Total members/weighted votes

10 (145)

5 (105)

Evaluation

	All countries		EEA countries	
1) Simple majority of members for acceptance (Yes/No)	10/5	YES	10/4	YES
2) Proportion of positive weighted votes ≥ 71%	58	NO	60	NO
Conditions fulfilled		NO		NO

Proposed implementation dates

doa : dor + 6 months

dop : dor + 12 months

dow : dor + 36 months

Automatic conclusion : To be rejected

CCMC note: The comments from SNV, the Swiss CEN national standards body, are attached at the end of this document.

National Committee	Line number	Clause/ Subclause	Paragraph Figure/ Table	Type of comment (General/ Technical/Editorial)	COMMENTS	Proposed change	OBSERVATIONS OF THE SECRETARIAT on each comment submitted
AT				General	Suggest using a general writing of numbers corresponding to standardisation. According to ISO 80000-1 section 7.3.2 note 1 the decimal point of the number should be a comma and not a point (0,253 instead of 0.253). This has been done inconsistently throughout the text.		
AT				General	<p>As regards references to NLF and the directive: The wording should be in conformity.</p> <p>“EC-type examination” should be changed to “EU-type examination” (like it is proposed in NLF)</p> <p>Examples are mentioned below in line:</p> <ul style="list-style-type: none"> - 1123 - 1125 - 1136 - 2705 <p>“EC-type examination certificate” should be changed to “EU-type examination certificate” (like it is proposed in NLF)</p> <p>Examples are mentioned below in line:</p> <ul style="list-style-type: none"> - 1291 - 2038 - 2175 - 2182 - 2674 - 2689 - 2691 - 2757 - 2674 		

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CH-01				Technical	<p>For the purpose to be harmonised by European Commission specifying essential requirements of European Directive for Non-Automatic weighing Instruments (Dir 2009/23/EC), the FprEN 45501:2011 contains to many inconsistencies with reference to the mentioned Directive especially in the areas of:</p> <ul style="list-style-type: none"> - Applicability for products in small weight range, where no verified weights exists to perform the corresponding tests. - Differences in requirements for labelling and inscriptions with the directive. - Unspecific references to other standards, which would cause problems with implementation timelines not under control of the European Commission. <p>FprEN 45501:2011 causes foreseeable problems with executive authorities, which have no relation to the values protected by the Directive and the corresponding essential requirements. Therefor FprEN 45501:2011 has to be rejected and revised under the aspect of implementation as a harmonized standard for Dir 2009/23/EC.</p>	Reject Fpr EN 45501:2006	
DE01				General	<p>We still strongly support to transfer OIML R76:2006 into a revised EN 45501, especially regarding the new EMC requirements.</p> <p>However, there are still many comments and clarifications to be considered. Especially, the requirements for a product standard are not fulfilled (see Annex B, preliminary notes 1 and 2). Therefore, we have no other choice than to vote with "No, with comments".</p>		

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DE02				General	We still strongly support to transfer OIML R76:2006 into revised EN45501. But there has to be consistency with NAWID. Furthermore there are some errors in R76:2006 to be corrected and some clarifications are helpful which do not change the content.		
DE03				General	It should be confirmed by CEN/CENELEC that there is no conflict regarding Directive 98/34/EC.		
DE04				General	<p>In this particular case a transitional period is required to allow the industry to make an ordered conversion from the application of EN 45501:1992 to the forthcoming EN 45501.</p> <p>This transitional period should be in line with the proposed decision by the EU commission.</p>	Allow for a transitional period until end of 2013.	
DE58				General	Whole document: Give temperature differences in Kelvin and not in Celsius, e.g. in A.4.1.2.		
GB				General/ Editorial	<p>There are a number of clauses where the use of “:”, “;”, “,” and “and” are not consistent or are incorrect. Due to the number of instances these have not been listed individually. However, the text should be checked to ensure that where there is a bullet point list the following principles are followed:</p> <ol style="list-style-type: none"> 1. When there is a list, the preceding sentence should end with a “:” 2. Where the list contains more than two bullets a “;” should be used after each item 3. On the last but one item the “,” should be replaced with “, and” 		

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FR1		T.1.1		Editorial	Weighing instrument Note : add "according to OIML R111 or D28"	In this Standard "mass" (or "weight value") is preferably used in the sense of "conventional mass" or "conventional value of the result of weighing in air" according to OIML R111 or D28, whereas "weight" is preferably used for an embodiment (i.e. material measure) of mass that is regulated in regard to its physical and metrological characteristics.	
DE05		T.1.2	Note 2	Technical	We propose not to delete note 2 (see OIML R76-1 (2006)) but to change the wording.	NOTE 2 In case of doubt as to whether an instrument is a non-automatic weighing instrument or an automatic weighing instrument, the definitions for automatic weighing instruments given in Directive 2004/22/EC and related OIML Recommendations for automatic weighing instruments should be taken into account.	
DE06		T.2.2		Technical	Still open from input of German expert delegation: "Certificate of conformity" is a term under NAWID 2009/23/EC Annex II 3.5.2 (or NAWID omnibus Annex II module F 4.4.2) with a different meaning.	Therefore delete "conformity" and maybe change remaining "certificates" into "test certificates"	
CH-02	357	T.2.6		Editorial	In T.2.6 this device is named "extended displaying device" (In 4.4.3: "extended indicating device"). Please use the same name all over the document.	Change to "extended indicating device" We suggest to use the definition "indicating" through the whole document.	
AT	438	T.3.1.1		Technical	In a definition the defined word should not be used.	Change definition; Suggested solutions: - analogy to T.3.1.2 - value of maximum weighing load - upper limit of the weighing range	
AT	499	T.4.3		Technical	The word "reasonably" can not be determined clearly, therefore it should be written as in MID.	Change "reasonably constant conditions" to "same conditions" (as in MID)	
DE07		T.5.5	Fig 3	Technical	mpe 1 and mpe 2 are wrong. Mistake from OIML R76.	take the drawing from existing EN45501:1992	
CH-03	559	T.5.5		Editorial	Error in diagram; line styles for envelopes mpe1 and mpe2 are mixed up al low load	Correct the diagram	
DE08		T.8		General	The references are partly wrong (e.g. "software identification (6.5.1, 6.5.2.2)" should be "software identification (5.5.1, 5.5.2.2)").	References need to be checked	

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CH-04	643	T.8		General	The references are partly wrong (e.g. "software identification (6.5.1, 6.5.2.2)" should be "software identification (5.5.1, 5.5.2.2)").	References need to be rechecked	
DE09		T.9		General	The use of italic letters only if there are no consequences to product markings and international abbreviations. e.g. "e" in italic letters has consequences.		
DE10		T.9		General	Dmax and Dmin are mentioned in A.4.1.10 and must therefore be listed in this clause.	Use definitions from OIML R 60:2000, Table C.1	
DE11		T.9	Row 3	Editorial	1. Row 3 must be changed with row 4. Moreover A,B,C, and D are not abbreviations or symbols standing something like "load cell class" but determine the class itself. 2. DR is not for "dead load return" but "dead load output return error" (see R60)	1. "A a load cell class" etc. 2. "DR dead load output return error"	
CH-05	763	T.9	Row 3	Editorial	Row 3 must be changed with row 4. Moreover A,B,C, and D are not abbreviations or symbols standing something like "load cell class" but determine the class itself. "DR" difference in the definition of DR compared to OIML R60	"A a load cell class" etc. "DR": Copy exact definition of OIML R60 2.3.9 "DR"	
GB		3.2	Tab 3, col 2, row 4	Editorial	Capital letter l has been used instead of the number 1	Replace 0.l with 0.1	
GB	827-828	3.2		Editorial	Wording has changed from that in R76	Use same wording from R76 or change to following: "The minimum capacity is reduced to 5 e for class II and III instruments used for determining a conveying tariff."	
GB	850	3.3.3		Editorial	Full stop not required	Delete full stop after "III"	
GB	852	3.3.3		Editorial	Colon missing at end of line	Add colon after "are"	
GB	853	3.3.3		Editorial	Capital letter l has been used instead of the number 1 after $e_1 =$	Replace l with 1	
DE12		3.4.2	Tab 5a	Editorial	Last row of table is wrong.	$e = 10 d \quad 5 d \quad 2 d$	
FR2		3.4.2	Tab 5a	Editorial	In the last row of the table, replace "1 g" respectively "to 10d", "5d " and "2d"	Example values of e, calculated following this rule $d = \quad 0,1 g \quad 0,2 g \quad 0,5 g$ $e = \quad 1 g \quad 1 g \quad 1 g$ $e = \quad 10d \quad 5d \quad 2d$	
CH-06	895	3.4.2	Tab 5a	Editorial	Last row of table is wrong.	See table 5a in OIML R76: $e = 10 d \quad 5 d \quad 2 d$	

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AT	908	3.5	Tab 6	Editorial	Table format		
FR3		3.5.1	Tab 6	Editorial	Layout of the table to review because the formulas must fit on one line as before	Layout of the table to review because the formulas must fit on one line as before	
GB	908	3.5.1	Tab 6	Editorial	Formatting of table is causing text to wrap onto next line	Format table to ensure words/numbers do not wrap onto next line	
RO	914	3.5.2		Editorial	The specified subclause 8.4.2 does not exist.		
FR4		3.6.2		Editorial	modify 3.6.2.3 in 3.6.2.4	The indications for different positions of a load shall conform to the maximum permissible errors, when 936 the instrument is tested in accordance with 3.6.2.1 to 3.6.2.4	
AT	962	3.7.1		General	We prefer not include reference to OIML recommendations (although they might be useful) because doubts have been raised concerning references on documents not being harmonised in the EU. Is a reference to OIML Certificate appropriate for a European Standard? Examples: - 4131 - 4303		
CH-07	996	3.8.2.2		Technical	Measurement only possible for instruments with $d > 5\text{mg}$. Otherwise there do not exist verified weights. Rational: -A.4.8 refers to 3.8 (including 3.8.2.2) -A.4.8.2 describes procedure with additional weights, to measure e.g. 3.8.2.2. -The procedure A.4.8.2 defines $1/10d$.	change " $d \geq 5\text{ mg}$ " into " $d > 5\text{ mg}$ "	
GB	1024	3.9.1.1		Editorial	Space in between b and y in the word by	Delete space	
AT	1034			Editorial	Space is missing between 50/1 000 (see also 4.18)		
GB	1034	3.9.1.1		Editorial	No space between 000 and (Insert space between 000 and (
AT	1085	3.9.4		Technical	Same comment as in Line number 499		
AT	1024	3.9.11		Editorial	Space in "B y"		
AT	1123	3.10		General	The use of the NLF Terminology should be considered.	Only EU-type Examination should be used.	
AT	1125	3.10.1		General	See Line 1123		
GB	1128	3.10.1		Editorial	Reference to 6.5 is incorrect	Change reference to 5.5	
RO	1128	3.10.1		Editorial	The reference to subclause 6.5 is not correct.	Change 6.5 with 5.5.	

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AT	1135	3.10.2		General	According to the relevant test mentioned in line 1125, finally even with the help of the modular approach the whole instrument must fulfil the directive. Therefore a note should be amended.	Amend: All requirements mentioned in 3.10.1 should be taken into consideration for the whole weighing instrument. This may lead to additional tests for the whole instrument (eg. Influence tests).	
AT	1136	3.10.2		General	See Line 1123		
AT	1162	3.10.2.1	Tab 7	Editorial	Table format		
FR5		3.10.2.2		Editorial	Replace " Ditto for B.2.2 B.2 is "with" B.2 " replace (B.2.1) which don't exist by A.5.3	Purely digital modules need not be tested for static temperatures (A.5.3), humidity (B.2), and for span stability (B.4). They need not be tested for disturbances (B.3) if conformity to the relevant IEC Standards is otherwise established to at least the same level as required in this Recommendation.	
GB	1173	3.10.2.3		Editorial	No space between full stop and For	Insert space between full stop and For	
DE13		3.10.2.4		Technical	It is the responsibility of the Notified Body to accept OIML certificates. Therefore we propose to delete the whole chapter 3.10.2.4.		
GB	1179	3.10.2.4		Editorial	Recognized is not the correct term	Change recognized to designated	
GB	1179-1180	3.10.2.4		Technical	The use of OIML certificates under the MAA should not be permitted as the certificate should be issued by a Notified Body	Delete the text "or accepted under an MAA Declaration of Mutual Confidence"	
FR6		3.10.4.5		Technical	add at the end of the §	A document issued with MAA framework is an acceptable solution	
FR7		3.10.4.6		Editorial	Table 9: you must replace " E ", " D ", " N " with " e ", " d ", " n "	replace " E ", " D ", " N " with " e ", " d ", " n "	
AT	1291		Tab 9	General	The use of the NLF Terminology should be considered.	Only EU-type Examination Certificate should be used.	
CH-08	1291	3.10.4.6	Tab 9	Editorial	The symbols in the first column shall be a lower case "n", "e" and "d" instead of "N", "E", "D".	"n", "e", "d"	
DE14		3.10.4.6	Tab 9	Editorial	The symbols in the first column shall be a lower case "n", "e" and "d" instead of "N", "E", "D".	"n", "e", "d"	
GB	1291	3.10.4.6		Editorial	The correct terms for certificates under the Directive are not used	Change text in the line to read "in the EC Type Approval Certificate"	
GB	1291			Editorial	Capital letters have been used for e, d and n	Use lower case	
GB	1352	4.1.2.4		Editorial	The Directive does not require a Test Report	Delete reference to Test Report	

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CH-09	1370	4.1.2.4	c)	General	We do not see that national legislation applies. It is determined in EU directive, that this has to be corrected.	In the note: Delete "The consequences are under national legislation (e.g. that the instrument shall no longer be used for legally controlled purposes)."	
DE15		4.1.2.4	c)	General	Still open from input of German expert delegation: We do not see that national legislation applies.	In the note: Delete "The consequences are under national legislation (e.g. that the instrument shall no longer be used for legally controlled purposes)."	
FR8		4.2.2.2		Editorial	Example 1 : replace in columns "X" par "x" Example 2 : replace in columns "X" par "x"	Example 1 : replace in columns "X" par "x" Example 2 : replace in columns "X" par "x"	
GB	1407	4.2.2.2		Editorial	The example does not show an incorrect position for the decimal sign	Change the example to show an incorrect position	
GB	1415-1416	4.2.2.2		Editorial	The text shows Xxx	Change to make all lower case, i.e. xxx	
CH-10	1425	4.2.3	§ 4	General	Difference to OIML justified. There's no risk for consumer: - No print out below zero - No data transmission below zero	No change proposed: But maintain -20e.	
GB	1425	4.2.3		Editorial	Reference to e should be d in "-20e"	Change e to d	
DE16		4.4.3		Editorial	In T.2.6 this device is named "extended displaying device" (not "extended indicating device"). Please use the same name all over the document.	"extended displaying device"	
GB	1658, 1660-1661	4.6.12.1		Editorial	Footnote reference should be 1 instead of 2	Change footnote reference to 1	
GB	1671	4.6.12.2		Editorial	The footnote reference is 2 but there is no footnote	Check footnote references	
AT	1899	4.14		Technical	Printing should not be permitted according to the 2.2 to ensure a correct indication. The use of the instrument below the minimum capacity (Min) is likely to give rise to considerable relative errors.	Amend: Printing below minimum capacity shall not be possible.	
DE17		4.14.1		Technical	Please add the requirement for the currency unit.	"Prices shall be displayed and printed with currency unit".	
GB	1949	4.14.4.1		Editorial	Missing full stop	Insert full stop at end of sentence	
GB	1974	4.15		Editorial	Missing full stop	Insert full stop at end of sentence	
GB	2028	4.18.1		Editorial	The term Type Examination Certificate is not used in the Directive	Delete the text "or Type Examination Certificate"	
AT	2038	4.19		General	See Line 1291		

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GB	2038	4.19		Editorial	The term Type Examination Certificate is not used in the Directive	Delete the text "or Type Examination"	
DE18		4.19	Note 1	Technical	Note 1 calls attention to possible differences in national legislation. This needs not be part of EN45501. In addition, EN45501 should not include requirements for the use of the instruments dealt with in 4.19. It is sufficient to require the application for type-approval to be unambiguous and the instrument to be adequately designed. Therefore we propose to delete Note 1.		
GB	2155	5.4.2		Editorial	Reference to approval authority is incorrect	Change approval authority to Notified Body	
GB	2162	5.4.3	Tab 10	Editorial	Reference is made to static temperatures and voltage variations but these are not in annex B.2 or annex B.3 (as mentioned in line 2161)	Remove reference to static temperatures and voltage variations from the table, or add reference to relevant clauses in line 2161	
GB	2162	5.4.3	Tab 10	Technical	The retraction of the objection from the Commission as there is no evidence of problems with instruments tested at 3V/m raises questions about the severity levels chosen. No allowance has been made for the different electromagnetic environments in which instruments may be used.	In the table make reference to different severity levels for "residential, commercial and light industrial", "industrial" and "vehicle mounted instruments", e.g. follow the principles of E1, E2 and E3 from MID, although E3 instruments could be tested at levels for E1 or E2 as appropriate for the application. Levels specified in Annex B (see later)	
AT	2175	5.5.1		General	See Line 1291		
GB	2175-2176	5.5.1		Editorial	The term Type Examination Certificate is not used in the Directive	Delete the text "or Type Examination"	
AT	2182			General	See Line 1291		
GB	2182	5.5.1		Editorial	The term Type Examination Certificate is not used in the Directive	Delete the text "or Type Examination"	
DE19		5.5.2.1	Tab 11	Technical	reference to EMC requirements/tests to be deleted in number 2 and 3 of column "remarks" in table 11, due to regulations of existing European Directives.	Delete the last sentence in 2 and 3 of column "remarks" of table 11	
FR9		5.5.2.1		Editorial	Remplacer « EMC » par « CEM » pour être en phase avec T9	Applied on the French version Remplacer dans le tableau 11 « EMC » par « CEM » pour être en phase avec T9	
CH-11	2204	5.5.2.1	Tab 11	Technical	Remarks: May be misunderstood.	Change "New EMC tests ..., if the power supply is changed" to: New EMC tests ..., if the type of power supply is changed"	

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DE20		7		General	Consistency to EC directive 2009/23/EC resp. NAWID omnibus has to be achieved. Therefore see following listing. Additional marking requirements are not necessary and may be deleted because NAWID omnibus already has a very detailed listing. The references are from NAWID omnibus Annex III. Those items which are already in and at the right place will not be mentioned here.	see following points	
CH-11	2543	7		Technical	Consistency to EC directive 2009/23/EC resp. NAWID omnibus has to be warranted. Therefore see following listing. Additional marking requirements are not necessary and may be deleted because NAWID omnibus already has a very detailed listing. The references are from NAWID omnibus Annex III. Those items which are already in and at the right place will not be mentioned here.	see following points	
CH-13	2548-2551	7.1.1		Technical	The tabulators for the list for Min, Max, e are misleading	Delete line 2548 and change the following lines to: <ul style="list-style-type: none"> - Maximum capacity in the form: Max ... - Minimum capacity in the form: Min ... - Verification scale interval in the form: e = 	
GB		7.1.1, 7.1.2 & 7.1.3		Editorial	The current requirements do not align fully with Annex IV (1.1) of the Directive	Ensure that the required markings are aligned with Annex IV of the Directive	
DE21		7.1.1-7.1.4		Technical	EC directive says compulsory in any case for : (c) (i) number of TEC	move from 7.1.2 to 7.1.1	
DE22		7.1.1-7.1.4		Technical	R76:2006 and NAWID omnibus require name of manufacturer's agent or importer	add to 7.1.2	

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DE23		7.1.1-7.1.4		Technical	EC directive says compulsory in any case for : (iii) accuracy classes and (iv) to (vii) metrological data Accuracy classes are listed under 7.1.2 while metrological data are listed under 7.1.1 Please copy identically the text from R76:2006 second bullet point "Metrological markings (B):" for 7.1.1 That is important to achieve consistency to 7.1.4 where now is some wrong reference concerning 7.1.1 (B)	move accuracy classes from 7.1.2 to 7.1.1 For this please copy identically and complete text from R76:2006 second main bullet point.	
DE24		7.1.1-7.1.4		Technical	What is meant with 7.1.2 "identification mark" ? Maybe it is meant (see NAWID omnibus(ix)) "identification number of units"	Please change wording to NAWID omnibus (ix)	
CH-12	2544-2609	7.1.1-7.1.4		Technical	Since this EN is focusing on European requirements and the target is to fulfil the presumption of conformity with NAWID, this chapter can differ from OIML R76-1 and should be oriented according to NAWID.	Change this chapter to be in line with drafted NAWID OMNIBUS directive Annex III.	
CH-15	2568	7.1.2		Technical	Example: Accuracy classes (B) (7.1.2) are compulsory.	(B) should be listed in 7.1.1 after (A) as part of compulsory inscriptions	
CH-14	2553-2588	7.1.2-7.1.3		Technical	NAWID doesn't require the following inscriptions from 7.1.2 and 7.1.3 although they have a very long list. Those therefore can be deleted in the standard: - 7.1.2 software identification - 7.1.2 ratio of plus/minus indication - 7.1.2 counting ratio - 7.1.3 not direct sales to the public - 7.1.3 to be used exclusively for: - 7.1.3 the stamp does not guarantee..... - 7.1.3 to be used only as follows	Delete the listed topics: - 7.1.2 software identification - 7.1.2 ratio of plus/minus indication - 7.1.2 counting ratio - 7.1.3 not direct sales to the public - 7.1.3 to be used exclusively for: - 7.1.3 the stamp does not guarantee..... - 7.1.3 to be used only as follows	
GB	2595	7.1.4		Editorial	Reference is made to 7.1.1 (B) but this does		
CH-16	2595 & 2603	7.1.4	§ 3-4	General	Reference to 7.1.1 (B) is wrong here as long as the above mentioned change (copy complete R76:2006 2nd bullet point to 7.1.1) is not done. There is no (B) found under 7.1.1 in the draft yet.	Copy identically and complete text from R76:2006 second main bullet point and leave 7.1.4 as it is.	

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CH-17	2603	7.1.4	§ 4, line 2	Technical	It is not clear that these data must not be repeated on the descriptive plate	Add behind " visible position" "and need not be repeated on the descriptive plate."	
DE25		7.1.4	§ 5, line 2	Technical	to make more clear that these data must not be repeated on the descriptive plate	please add behind " visible position" "and need not be repeated on the descriptive plate."	
CH-18	2617	7.1.4	Fig 8, "For a multiinterval Instrument"	General	The marking Max 1 / 2 / 5 kg e 1 / 2 / 5 g can be misleading. The symbol of the unit should follow each parameter. In 4.6.12.5 and 4.6.12.6 it is also done in the right way	Marking of Max and e should be in the form: Max 2 kg / 5 kg / 15 kg e 1 g / 2 g / 5 g	
AT	2674			General	See Line 1291		
DE26		7.2		Technical	Heading "7.2 verification marks" is unclear what is meant by this in Europe	use introduction sentence from EN 45501:1992, 7.2.1: "An instrument shall have a place for the application of marks as required by national rules of the country where the instrument is intended to be placed on the market or taken into service."	
GB	2674	7.2		Editorial	The Directive does not require a Test Report	Delete Test Report	
DE27		8		General	With regard to the requirements of Directive 2009/23/EC it has to be checked whether parts of chapter 8 must be deleted.		
DE28		8.1	§ 1	Technical	Type approval must not be forbidden:	"Instruments according to ... need not be subject to type approval..."	
AT	2689	8.1		General	Inconsistency to line 2892 (Application for type examination) NLF should be considered and therefore EU-type examination should be used. See Line 1123		
AT	2691	8.2		General	See line 2689		
DE29		8.2.1		Technical	The text in 8.2.1 (not subchapters) has to be deleted as this is part of Directive 2009/23/EC		

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AT	2694	8.2.1		Technical	We think the paragraph could lead to misunderstandings. The opportunity to accept modular approach belongs to the Notified Body. It should not be treated as a more effective way because this could imply the right to be accepted.	We suggest a different wording.	
AT	2705	8.2.2		General	See Line 1123		
DE30		8.3		Technical	Delete the text in 8.3 (not the subchapters) Requirements on verification will be part of new 2009/23/EC (NLF).		
GB		8.3		Technical	It is not clear if this clause is applicable only to EC verification (Annex II.3) or also to EC declaration of type conformity (Annex II.2).	Clarify applicability of this clause. If only EC verification, then use the term "EC verification" instead of just "verification". Also in line 2720 replace "authorized personnel" with "notified body".	
AT	2719	8.3		General	The use of NLF Terminology should be considered. See Line 2732		
AT	2723	8.3		General	The term "initial verification" does not exist in the directive. The use of NLF Terminology should be considered. According to NLF: Module F, F1, D, D1 would be possible. "Modul F: Conformity to type based on product verification" should be amended instead of "initial verification".		
DE31		8.3.1		Technical	We agree with deleting the contents of 8.3.1. In order not to have an empty chapter, we propose to make reference to the requirements of Directive 2009/23/EC	"The requirements of the NAWI Directive apply."	

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FR10		8.3.1		Editorial	it lacks a §	declaration of conformity to the approved type and/or this standard shall cover: - correct operation of all devices, e.g. zero-setting, tare, and calculating devices; - construction material and design, as far as they are of metrological relevance; - proof of compatibility of the modules if the modular approach according to 3.10.2 has been chosen; and - if appropriate, a list of the tests performed.	
AT	2737	8.3.1		General	A different wording is necessary, because the declaration of conformity can not cope with this. The requirements for DoC are defined by the COM.	"Procedure" instead of "Conformity" would be appropriate to describe the point.	
AT	2737			General	In addition to Comment in Line 2732	Amend: The recommended procedure may be used for other kinds of verification, which do not refer to the directive 2009/23/EC (e.g. subsequent verification).	
DE32		8.3.3	Bullet 1	Technical	The wording of the 1st bullet point leaves open what the first loading step is for instruments with Min < 100 mg. Therefore we propose to change the 1st bullet point.	"3.5.1, 3.5.3.3 and 3.5.3.4: errors of indication (refer to A.4.4 to A.4.6, but five loading steps are normally sufficient, the test loads selected shall include Min. For instruments with Min < 100 mg the first loading step shall be not greater than 100 mg);"	
DE34		8.3.3	Last §	General	Several times there is mentioned "initial verification". This does not exist in EU. See also 3.5.1.	delete "initial" from "initial verification"	
AT	2757	8.3.3		General	See line 1291		
DE33		8.3.4		Technical	This chapter describes possible variants of verification marks according to national legislation. This is superfluous in this Harmonised Standard. In addition, the securing of components is described in 4.1.2.4 and 7.2. Therefore we propose to delete the whole chapter 8.3.4.		
FR11		8.3.4		Technical	§ must be deleted	Not in agreement with Council Directive 2009/23/EC on Non-automatic weighing instruments.	
CH-19	2793	A.4.1.1		Editorial	Chapter Numbering wrong. It reads "4.1.1"	Change to "4.1.1"	
AT	2808	A.4.1.4		Editorial	Start at the next page.		

National Committee	Line number	Clause/Subclause	Paragraph Figure/ Table	Type of comment (General/ Technical/Editorial)	COMMENTS	Proposed change	OBSERVATIONS OF THE SECRETARIAT on each comment submitted
GB	2817	A.4.1.6		Editorial	The Directive does not require a Test Report	Delete final sentence beginning "If a device ..."	
GB	2823	A.4.1.7		Editorial	The Directive does not require a Test Report	Delete final sentence beginning "If a simulator ..."	
FR12		A.4.1.10		Editorial	Replaced by three dashes following formulation as formulated in § 4.1.3 of the R 60: "the load cell by applying the maximum test load. Dmax, three times, returning to the test load minimum, D min, after each load application. Wait 5 minutes	Where load cells are tested separately, the pre-loading shall follow OIML R 60. Exercise the load cell by applying the maximum testload, Dmax, three times, returning to the minimum testload, Dmin, after each load application. Wait 5 minutes.	
GB	2832-2837	A.4.1.10		Editorial	The pre-loading routine text is not correct	Correct the pre-loading routine to align with R60	
AT	2833	A.4.1.10		Technical	We suggest including a specific waiting time after preloading the instrument as described for preloading load cells.	The waiting time after preloading should be at least 1 minute.	
CH-20	2835-2836	A.4.1.10	Bullet 1-2	Editorial	The last word "test" is wrong in this context. It has to be "load"	Change "test" into "load" in both cases.	
DE35		A.4.1.10	Bullet 1-2	Editorial	Editorial error (see original wording of OIML R60:2000, A.4.1.3) Where load cells are tested separately the pre-loading shall be as follows: - Exercise the load cell by applying the maximum test; - load, Dmax, three times, returning to the minimum test; - load, Dmin, after each load application. Wait 5 minutes.	Where load cells are tested separately the pre-loading shall be as follows: Exercise the load cell by applying the maximum test load (Dmax) three times, returning to the minimum test load (Dmin) after each load application. Wait 5 minutes. Dmax <= Emax, Dmin >= Emin	
CH-21	2879	A.4.2.2		Technical	Measurement only possible for instruments with $d > 5\text{mg}$. Otherwise there do not exist verified weights. Rational: - 4.5.5 says, that the test isn't required for $e=d$. - For $e=d$ –instruments A.4.2.2 refers to $1/10d$, so the application range is limited to $e=d>5\text{mg}$.	Add: "(this test is applicable for instruments with $e=d>5\text{mg}$ only)"	

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CH-22	2881	A.4.2.3		Technical	Measurement only possible for instruments with $d > 5\text{mg}$. Otherwise there do not exist weights. Rational: -A.4.2.3 includes subparagraphs A.4.2.3.1 and A.4.2.3.2 - The Subparagraphs refer to A.4.4.3. -A.4.4.3 describes the use for 1/10e -A.4.2.3 refers to 4.5.2 -4.5.2 bases on e - So instruments $e=d<10\text{mg}$ or $e=2d<10\text{mg}$ are not testable.	Add: "(this test is applicable for instruments with $e=d>5\text{mg}$ only)".	
DE36		A.4.4.1	§ 2	General	Still open from input of German expert delegation: As chapter 8 is changed, the wording of A.4.4.1 "during initial verification (8.3) and subsequent metrological control (8.4)" has to be adapted accordingly e.g. 8.4 doesn't exist.	References have to be updated.	
DE38		A.4.4.1		Technical	Replace "(Min only if $\text{Min} \geq 100\text{ mg}$)" by the proposed wording Otherwise for instruments with $\text{Min} < 100\text{ mg}$ the first loading step could be chosen too high.	"For instruments with $\text{Min} < 100\text{ mg}$ the first loading step shall not be greater than 100 mg"	
FR13		A.4.4.1		Editorial	Essai weighing: at the end of the second § reference is made in § 8.4, this reference does not make sense, there is no § 8.4	During type examination it should be noted that when loading or unloading weights the load shall be progressively increased or progressively decreased. It is recommended to apply the same procedure as far as possible during initial verification (8.3) and subsequent metrological control	
DE39		A.4.6.1		Technical	Replace "(Min only if $\text{Min} \geq 100\text{ mg}$)" by the proposed wording Otherwise for instruments with $\text{Min} < 100\text{ mg}$ the first loading step could be chosen too high.	"For instruments with $\text{Min} < 100\text{ mg}$ the first loading step shall not be greater than 100 mg"	
CH-23	2981	A.4.6.1	§ 3	General	The text is referring to chapter 8.4, which is missing	Check reference.	
FR14		A.4.7		Editorial	This next sentence was in the original 45501, it is in the new R 76 Version "the location of the load shall be marked on a sketch in the Test Report" we must add it next the note.	the location of the load shall be marked on a sketch in the Test Report.	

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FR15		A.4.8.2	Fig 10	Editorial	Figure 10 § A.4.8.2 the abbreviation "add" is replaced by "raj", a legend should be included stating "additional weight = raj"	add in Figure 10 the caption "Additional weight = raj"	
CH-24	3046	A.4.8.2		Technical	Measurement only possible for instruments with $d > 5\text{mg}$. Otherwise there do not exist weights Rational, see 3.8.2.2	Change " $d \geq 5\text{mg}$ " into " $d > 5\text{mg}$ "	
GB	3125	A.4.13		Editorial	The Directive does not require a Test Report	Delete sentence beginning "These should ..."	
CH-25	3130	A.4.13	Bullet 1	Editorial	wrong expression: „Accuracy test" maybe it is meant "weighing performance"	Change to "weighing performance" test.	
DE37		A.4.13	Bullet 1	Technical	wrong expression: „Accuracy test" maybe it is meant "weighing test"	clarify and change or define.	
GB	3195	A.5.3.1		Editorial	Capital letter I has been used instead of the number 1 after A.4.4.	Replace I with 1	
CH-26	3204	A.5.3.1		General	Text error: "relative humidity" is wrong. Should read absolute humidity	Replace "relative" by "absolute".	
AT	3266	A.6		Technical	It is not clear if the endurance test corresponds to the whole instrument or to the use of a simulator. The endurance test should be foreseen to be performed on the whole instrument; mechanical aspects according the load receptor should be considered.	Amend: A load cell simulator shall not be used during this test.	
GB	3282-3284	B	Preliminary note 1	Technical	Reference to IEC and OIML are not appropriate in an EN	Delete text "International Electrotechnical ... International Recommendation D11 [4]" and replace with "CEN/CENELEC"	
ES		B	Preliminary note 2	Technical	We consider the document FprEN 45501:2011 is a very positive progress regarding the current EN 45501, our position is against that document because of the contents of the Preliminary note 2 (Annex B), as this note leaves too open the possibility of changes in EMC tests and other additional tests so unacceptable in our point of view		

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CH-27	3285-3289	B	Preliminary note 2	Technical	<p>Formally not correct to define requirements in a note. Requirements have to be spelt out.</p> <p>Changes in IEC standards are not under the umbrella of the EU and do not necessarily take into account the essential requirements of the NAWID. So changing these references have to be made officially by CEN.</p> <p>The versions of referred standards have to be defined. Otherwise there would be no change control on EU level defining implementation and transition periods and thus no legal safety.</p>	Delete note 2	
GB	3285-3289	B	Preliminary note 2	Technical	The preliminary note should not be included as the standard should specify which dated versions of standards should be applied.	Delete the preliminary note.	

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DE40		B	Preliminary notes 1 and 2	General	<p>Still open from input of German expert delegation: A standard has to be unambiguous and clear. There shall be no doubt about what is required. Therefore in annex B is clearly defined in the clauses B.x what is state of the art for electronic instruments to give presumption of conformity to the NAWID 2009/23/EC. The preliminary notes 1 and 2 in annex B kill this clearness and transparency and lead to non-uniform interpretation and to uncertainty what is really required. In addition the changes in IEC standards are not under the umbrella of the EU and do not take into account the essential requirements of the NAWID. The references in the bibliography are all dated but the (informative) preliminary notes 1 and 2 recommends to use the most recent versions. This is inconsistent.</p> <p>It is the view of the German experts that a harmonized Standard intended for the coverage of essential requirements of EC Directives must clearly specify these requirements. Following the recommendation, as in preliminary note 2, might lead to a scenario that the essential requirements as given in Annex I of the EC Directive 2009/23/EC are not covered any longer as soon as newer Standards of other Standardization bodies (e.g. IEC) with divergent requirements are being published and used.</p> <p>Instead, to keep pace with future technical developments, the EN 45501 should be revised, if the need arises.</p>	Please delete the preliminary notes 1 and 2 in annex B	
IT		B	Preliminary notes 1 and 2	Editorial	IT NC underlines that the standard should be unambiguous and clear as far as possible.	In this respect we suggest to reconsider annex B.x in order to better clarify the requirements for electronic instruments to give presumption of conformity to the NAWID 2009/23/EC.	

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GB	3301	B.2		Editorial	Full stop missing between "humidity" and "The"	Add full stop.	
DE41		B.3		Technical	References are made to ISO standards and not to EN standards. In addition there are more new versions given in this draft standard than in R76:2006 mentioned ISO standards. But this might be not relevant as these references refer to equipment and test methods only. Exception see B.3.7.1 and 3.7.2 below.	check	
CH-29	3324	B.3		Technical	Delete "The handling of the instrument shall be such that no condensation of water occurs on the instrument." This is already mentioned in the general chapter B.1 (and it seems to be misplaced in B.3).	Delete the sentence	
CH-28	3325	B.3		General	References are made to ISO standards and not to EN standards. In addition there are more new versions given in this draft standard than in R76:2006 mentioned ISO standards. But this might be not relevant as these references refer to equipment and test methods only. Exception see B.3.7.1 and 3.7.2 below.	Check and define version	
GB	3356	B.3.2		Technical	Severity levels to be selected to match electromagnetic environment (see earlier comment relating to 5.4.3)	Selected levels are applicable to both E1 and E2 so can be retained.	
DE43		B.3.3		Technical	Delete "The test shall be applied to power supply lines". The test is also applicable to communication lines, data lines etc.		
DE44		B.3.3		Technical	for clarification, please add the amplitude for communication lines,	"Signal, data and control lines: Line to line 0.5 kV; line to earth 1 kV or 0.5 kV (shielded I/O and communication lines)"	
FR16		B.3.3		Editorial	Surge: 2nd §, the reference to gas and liquid seems strange here, it is that this paragraph was copied from the OIML D 11 for various categories of measuring instruments and should be deleted	The test is applicable to power lines, communication lines (internet, dial up modem, etc.), and other lines for control, data or signal mentioned above (lines to temperature sensors, etc.).	
GB	3386	B.3.3		Technical	Severity levels to be selected to match electromagnetic environment (see earlier comment relating to 5.4.3)	Propose Level 2 for equivalent of E1 and Level 3 for equivalent of E2	
DE45		B.3.4	Test severity:	Technical	Add the following wording because this is in line with the original IEC:	... for air discharges, with air discharge in steps of 2 kV starting from 2 kV on.	

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CH-30	3412	B.3.4	Test severity:	Technical	Add the following wording because this is in line with the original IEC:	Add: "... for air discharges, with air discharge in steps of 2 kV starting from 2 kV on".	
GB	3412	B.3.4		Editorial	Reference to EN 61000-4-2 is not required	Delete text "(see EN 61000-4-2 [12])"	
GB	3429 & 3433	B.3.5		Technical	The frequency range and field strength are not correctly specified, and do not align with E1 and E2 principles (see earlier comment relating to 5.4.3)	Frequency range from 80 MHz to 1000MHz @ 3V/m for E1 and 10 V/m for E2 and from 1400MHz to 2000MHz @ 3V/m for E1 and E2 (in accordance with 61000-6-1 and 61000-6-2)	
GB	3450	B.3.6		Technical	The amplitude does not align with E1 and E2 principles (see earlier comment relating to 5.4.3)	Propose 3 V (emf) for E1 (residential, commercial and light industrial) and 10 V (emf) for E2 (industrial)	
DE42		B.3.7.1		Technical	references are made to ISO standards and not to EN standards and to more new versions. See remark to B.3 above.	check	
DE46		B.3.7.1		Technical	Add test pulse 5a of ISO7637. Replace "Test pulses 2a+2b, 3a+3b, 4" by the proposed wording	"Test pulses 2a+2b, 3a+3b, 4 and 5a" "Surge produced by spinning alternators when the battery or some other significant load is accidentally disconnected (pulse 5)."	
DE47		B.3.7.1		Technical	Add pulse 5a of ISO7637-2 to the table	12 V 5a 65 V to 87 V 24 V 5a 123 V to 174 V	
CH-31	3462-3465	B.3.7.1		General	references are made to ISO standards and not to EN standards and to more new versions. See remark to B.3 above.	Check references.	
GB	3462-3465 & 3470	B.3.7.1		Technical	Test pulse 4 is no longer included in 7637-2	Include reference to the correct standard for test pulse 4 and include reference in Bibliography	
CH-32	3491-3494	B.3.7.2		General	it is written "Test severity : According to ISO 7637-3 [22]" and some lines later there is a table for test severities with detailed levels and reference to part IV of ISO 7637-3 [22]. Clarification if this is still in conformity	Delete "Test severity : According to ISO 7637-3 [22]" and stay with the table. Check whether levels of part IV of ISO 7637-3 [22] is in conformity with the table.	
FR17		C.2.7		Editorial	"Replace "R 76-1" with "this standard"	this is not a lack of repeatability within the meaning of the present standard	
AT	3710			Technical	The word "suitable" can not be determined clearly. It should be more specified.		
AT	3722	C.3		Technical	A summary of all tests, which should be performed for these modules, would be useful.	We suggest implementing a summary of all tests which have to be performed for these modules like it is done in D.3 (Line 4001).	

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AT	3726	C.3.1		Technical	The mentioned procedure may lead to misunderstanding. The temperature range is unclear. Which temperature is meant by "Change the temperature"?	We suggest changing the beginning of the sentence in Line 3724 to: "In principle, the temperature effect on the amplification is tested according to A.5.3 with special considerations, mentioned in the following procedure." Other suggested solution may be: Amend "(how it is described in A.5.3)" to Change the temperature (how it is described in A.5.3) and verify...	
DE48		C.4		Technical	It is not possible to issue a type-approval certificate for a module. Therefore we propose to delete chapter C.4.		
GB		C.4		Technical	TACs can not be issued for a module (TAC is only for a complete instrument)	Delete section	
AT	3842	C.4		General	"EU-type Examination Certificate" can be issued only for a whole weighing instrument. For a module only a Test Certificate can be issued. The issued Certificate for indicators is described as test certificate or OIML Certificate in Line 4303, whereas "test certificate" would be sufficient.	Change "Type Approval Certificate" to "Test Certificate"	
CH-33	3842	C.4		Technical	NAWID doesn't accept Type approval certificates for modules. It is not possible to issue a type-approval certificate for a module. We should not create requirements for the content of evaluation certificates / part certificates.	Replace "type approval*" by "test or conformity".	
AT	3845	C.4.1		General	The certificate should refer to the tested module, which may be an indicator or an analog data processing device. The terms should be consistent to Annex D.4 (Line 4010)	Change "and the indicator." to "... and the module (indicator, analog data processing device)." Or amend the comment: Where an "indicator" is mentioned below, the tested module should be taken (indicator or analog data processing device)	

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AT	3846			General	See line 3845.	Change indicator to tested module (indicator, analog data processing device)	
AT	3856			General	See line 3845.	Change indicator to tested module (indicator, analog data processing device)	
AT	3859			General	See line 3845.	Change indicator to tested module (indicator, analog data processing device)	
FR18		D.1		Editorial	Footnote n° 8 : replace "recommandation" by "standard"	Purely digital modules need not be tested for disturbances (B.3) if conformity to the relevant IEC Standards is otherwise established to at least the same level as required in this standard.	
SK1	3970	D.2.1	Last §	General	In the last paragraph of subclause D.2.1 the reference to "this Recommendation" should be modified to reference to standard	However, all indicated values and all functions which are transmitted and/or released via an interface shall be tested to ensure that they are correct and in compliance with this Standard.	
SK2		D.3	Foot-note 8	General	In the footnote 8 in clause D.3 the reference to "this Recommendation" should be modified to reference to standard	⁸⁾ Purely digital modules need not be tested for disturbances (B.3) if conformity to the relevant IEC Standards is otherwise established to at least the same level as required in this Standard.	
DE49		D.4		Technical	We propose to delete chapter D.4 (see our comment on C.4)		
GB		D.4		Technical	The Directive makes no reference to Test Certificates	Delete this section	
CH-34	4010-4061	D.4		Technical	We propose to delete chapter D.4 (see our comment on C.4)	Delete D.4	
FR19		D.4.2.5		Editorial	2 nd § add "as defined in 5.3.6.1 of this standard "	5 Interfaces : Interface types and numbers for the indicating and operating device (terminal), for peripheral devices and for other devices. All interfaces are protective as defined in 5.3.6.1 of this standard "	
DE50		E.4		Technical	We propose to delete chapter E.4 (see our comment on C.4)		

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GB		E.4		Technical	The Directive makes no reference to OIML Certificates	Delete this section	
AT	4131	E.4		General	See line 962	Change "OIML Certificate" to "Test Certificate".	
CH-35	4135-4185	E.4		Technical	We propose to delete chapter E.4 (see our comment on C.4)	Delete E.4	
FR20		E.4.2.5		Editorial	2 nd § add "as defined in 5.3.6.1 of this standard	5 Interfaces: Interface types and numbers, for peripheral devices and for other devices. All interfaces are protective as defined in 5.3.6.1 of this standard "	
DE51		F	Note 1	Technical	It could be understood wrong that an OIML report would be accepted as well in case it is issued by someone else than a European Notified Body.	Add "both" before "issued by a Notified Body"	
DE52		F.1	"Connecting system ..."	Technical/ Editorial	We propose to leave a row in between "A... cross section..." and "Q... correction factor..." since both are not linked at all.		
DE53		F.1	Last 4 bullet points	Editorial	The last four bullet points (after "Q") are misplaced. They belong to the footnote 9 which is an explanation belonging to "NUD". The bullet points give examples for "NUD".	Please move the 4 bullet points to footnote 9 after "are presented."	
CH-36	4238-4247	F.1	Last 4 bullet points	Editorial	The last 4 bullet points (after "Q") are misplaced. They belong to the footnote 9 which is an explanation belonging to "NUD". The bullet points give examples for "NUD".	Move the 4 bullet points to footnote 9 after "are presented."	
AT	4251	F.2		General	"Only SH and CH tested load cells are allowed under the modular approach (not NH load cells)" It belongs to the notified body to accept modular approach, which in addition is not foreseen in the directive. Therefore a standard should not define which is allowed under the modular approach.	Delete the sentence.	
FR21		F.2.1		Editorial	tableau 13 column reference, add "or present standard"	OIML R76 or present standard	
GB	4287	F.2.6		Editorial	There appears to be an error in the formula "·x"	Correct the formula by removing the "·"	
DE54		F.2.7		Editorial	"e" should not have the index "1" because then the second para under "Note" would not make sense.		

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CH-37	4294	F.2.7		Editorial	"e" should not have the index "1" because then the second paragraph under "Note" would not make sense.	Delete index "1"	
GB	4294	F.2.7		Editorial	There appears to be an error in the formula "x."	Correct the formula by removing the "."	
GB	4329	F.3.5		Editorial	The symbol is not correctly shown	Replace □ with Δ	
AT	4359	F.4	Table, (8)	Editorial	Format For electr. Ind. (unloaded ..)		
GB	4408	F.6.1	item 9)	Editorial	The symbol is not correctly shown	Replace □ with Ω	
GB	4452	F.6.2	item 3)	Editorial	A decimal point is shown beneath the ≤	Delete the decimal point	
GB	4452	F.6.2	item 7)	Editorial	The symbol is not correctly shown		
GB	4452	F.6.2	item 9)	Editorial	The symbol is not correctly shown		
SK3	4482	G.2.3	Indent 6	General	In the sixth indent of G.2.3 the reference to "this Recommendation" should be modified to reference to standard	<ul style="list-style-type: none"> ▪ Check whether each documented function and parameter does not contradict the requirements of this Standard. 	
DE55		G.4		Technical	To be in line with the note in 5.5.2, "PC" should be replaced by "Personal computers and other devices"	"Personal computers and other devices"	
DE56		G.4		Editorial	There is no official test report format in EU. The tests have to be recorded only.	Change heading from "Test Report Format" to "Test record" as already done in several chapters before	
GB	4548	G.4		Editorial	Directive does not require test report	Delete this section	
CH-39	4548, 4450	G.4		General	There is no official test report format in EU. The tests have to be recorded only.	Change heading from "Test Report Format" to "Test record" as already done in several chapters before	
CH-38	4550	G.4		Technical	To be in line with the note in 5.5.2, "PC" should be replaced by "Personal computers and other devices"	Replace "PC" by "Personal computers and other devices"	
CH-40	4562	Bibliography		General	1. Some references are not shown in the text before. Some are. 2. Several (not only for EMC requirements) are changed to EN and with newer editions than R76. Conformity with the requirements in the chapters have to be checked.	Check	
DE57		Bibliography		General	1. Some references are not shown in the text before. Some are. 2. Several (not only for EMC requirements) are changed to EN and with newer editions than R76. Conformity with the requirements in the chapters have to be checked.	Check	

National Committee	Line number	Clause/ Subclause	Paragraph Figure/ Table	Type of comment (General/ Technical/Editorial)	COMMENTS	Proposed change	OBSERVATIONS OF THE SECRETARIAT on each comment submitted
GB		Bibliography	Ref [3] and [4]	Editorial	References to OIML Recommendations should be removed	Delete [3] and [4]	
GB		Bibliography	Ref [8]	Editorial	Dated reference is incorrect	Change dated reference to 2002	
GB		Bibliography	Ref [13]	Editorial	A2:2010 is missing	Add A2:2010	
GB		Bibliography	Ref [20]	Editorial	Dated reference is incorrect	Change dated reference to 2007	
GB		Bibliography	Ref [21]	Editorial	Dated reference is incorrect	Change dated reference to 2011	
GB		Bibliography	Ref [23]	Editorial	References to OIML Recommendations should be removed	Delete [23]	

Template for comments and secretariat observations

Date:	Document:
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1	2	(3)	4	5	(6)	(7)
MB ¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com- ment ²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
CH	Annex B.3.5		te	The annex sections B.3.5: - the immunity to radiated radio-frequency fields should be tested up to 2.7 GHz (and not only 2.0 GHz) with a recommended level of 10 V/m. The range 2.0 GHz to 2.7 GHz is very important since it includes services like UMTS, WLAN, and in the future LTE, that may disturb the weighting instruments.		
CH	Line 357 T.2.6		ed	In T.2.6 this device is named "extended displaying device" (In 4.4.3: "extended indicating device"). Use the same name all over the document.	use the term "indicating" through the whole document	
CH	Line 559 T5.5	Figure 3	ed	The error limits mpe_1 are 0.5e/1e/1.5e and mpe_2 1e/2e/3e or the table shows mpe_1 1e/1.5e and mpe_2 0.5e/2e/3e	Correct the line style in the first sector of the graph where mpe_1 shall start with 0.5e and mpe_2 with 1e	
CH	Line 895 3.4.2	Table 5a	ed	The last row of the table is wrong, the unit shall be d	Correct as defined in OIML R76-1(2006) table 5a	
CH	Line 1291 3.10.4.6	Table 9	ed	<i>e</i> , <i>d</i> and <i>n</i> are written in capital letters	Write <i>e</i> , <i>d</i> and <i>n</i> in lower-case letters	
CH	Line 1370 – 1371 4.1.2.4 c)	Note	ge	Mention about national legislation shall not be mentioned in a standard.	Delete the text: The consequences are under national legislation (e.g. that the instrument shall no longer be used for legally controlled purposes)	
CH	Line 1425 4.2.3		te	It is also possible that negative values down to -20e are displayed. This differs from OIML R76-1 where -20d is defined. Some countries would like to change this back to -20d We insist to keep -20e because for Class I and II instruments where $e = 100 d$, removing the weight makes that the indication goes shortly below -20d and indicates under load each time when the load is removed. The instrument is not allowed to transmit or print values	Keep -20e	

1 MB = Member body (enter the ISO 3166 two-letter country code, e.g. CN for China; comments from the ISO/CS editing unit are identified by **)

2 Type of comment: ge = general te = technical ed = editorial

NOTE Columns 1, 2, 4, 5 are compulsory.

Template for comments and secretariat observations

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1	2	(3)	4	5	(6)	(7)
MB ¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com- ment ²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
				below 0 (see line 1427) therefore it is not possible that a consumer would be disadvantaged when keeping -20e.		
CH	Line 2552 7.1.2		ge	The letter (C) has been removed compared to the OIML R76-1 (2006) version "Name or Mark of manufacturer's aged fro an imported instrument (C); Often manufactures have agents or representatives in the countries where the market surveillance authorities and the customers can have a first contact in case of any problem	Add between line 2552 and 2553 the text <ul style="list-style-type: none"> Name or Mark of manufacturer's agent fro an imported instrument (C); 	
CH	Line 2568- 2573 7.1.2		ge	The block Metrological markings (B) is in OIML R76 compulsory in all cases (7.1.1) it is not clear why these points have been moved to 7.1.2	Shift the block after Line 2551 under 7.1.1 Compulsory in all cases	
CH	Line 2548 7.1.1		ed	Maximum capacity in the form Max... is written twice	Remove line 2548	
CH	Line 2765 – 2770 8.3.4		ge	Markings and securing are defined by the 2009/23/EC and shall not be in the standard, especially as there is written "according to national legislation"	Remove 8.3.4	
CH	Line 3835- 3836 A.4.1.10		ed	Wrong sentence: "Exercice the load cell by applying the maximum test "	Replace test by load on both lines	
CH	Line 3130 A.4.13		ed	With accuracy test is meant the weighing test (A.4.4.1)	Replace accuracy by weighing	

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