49th CIML Meeting

Agenda item 8.3.1 – Approval of Final Draft Recommendations and Documents

DRAFTS 4 & 5 – Revision of R 50-1 and R 50-2: Collated comments

22 October 2014

BIML note:

It appeared that in the collated comments on the Final Draft revision of OIML R 50 *Continuous totalizing automatic weighing instruments (belt weighers)* – Part 1: *Metrological and technical requirements* and Part 2: *Test procedures*, included in the information files accompanying DRAFTS 4 & 5 submitted to the CIML meeting for approval under agenda item 8.3.1, the comments submitted by the Netherlands and the convener's responses to those comments were not included.

The convener of TC 9/SC 2/p 7 has now updated the collated comments file to include the comments from the Netherlands and the convener's responses to those comments. The convener confirms that all of these comments are editorial. The updated comments file is reproduced on the following pages.

Comments on: Revision of R 50-1&2 CIML First Draft comments_July_2013

TC 9/SC 2 Secretariat

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Member/ Org	Page No.	Doc clause	Comments	Proposed change	Secretariat Comments
Austria	14	0.3.1.2	Although the ”totalization scale interval for testing” is mentioned in the definition without an abbreviation, it could be useful to have an abbreviation in the case of a special mode active. This could prevent confusions. In addition amend the abbreviation also in 3.4.3.3	Amend abbreviation d_v (digit at verification) In addition amend the abbreviation d_v in point 3.4.3.3	In accordance with proposals from Denmark and other members, the symbol “e” is proposed as the abbreviation for scale interval for testing, (“e” is intended to represent extended resolution) **Amended as follows:** 0.3.1.2 totalization scale interval for testing (e) difference between two consecutive indicated values, expressed in units of mass, with the instrument in a special mode for testing purposes. This scale interval for testing (e) is equal to the totalization scale interval (d) if the special mode not available.

Member/ Org	Page No.	Doc clause	Comments	Proposed change	Secretariat Comments
Austria	17	0.4.3	Reason for negative voting: The wording physical medium is undefined. Therefore the new definition is unclear. Are there other physical mediums such as paper? Printout itself is clearly defined (as in MID). We insist on retaining the original definition, even if it uses the original term.	Retain original definition	To align with other Recommendations, the following definition is proposed "*hard copy or printout of the measurement results produced from a printer*" "Hard copy" is also mentioned in the MID. **Amended as follows:** **0.4.3 printout** *a hard copy or printout of the measurement results produced from a printer* ~~a representation of the weighing result in electronic format on a physical medium such as paper~~
Austria	38	3.9.4	d_t is mentioned twice and nowhere defined.	change to d	Agreed. Symbol d_t is to be deleted and replaced with "d"
Austria	10	Fig 1. Table	Editorial comment	In the column of "primary display" put the bracket in the next line	Editorial. For final editorial by the BIML editor.
Austria	14	0.3.4	Editorial comment	Next page	Editorial. For final editorial by the BIML editor.
Austria	48	Table 4	Editorial comment	Table 4 on the next page	Editorial. For final editorial by the BIML editor.

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Austria	59	A.3.7.3	Format “2.4”	Same format for 2.4	Agreed. Delete the comma between 2.4 and Table 3 throughout the document as appropriate. “2.4~~,~~ Table 3” **Amend as follows:** 2.4 Table 3
Austria	73		Editorial comment	Insert enter after “minimum flowrate”	Agreed. BIML Editorial.
Austria	82	table	Editorial comment	Correct “data and control lines”	Agreed. In Table of “summary of Tests”, the text “lines” to be inserted at end as follows: “data and control lines”
Austria	94	B.1	Editorial comment	New page	Editorial. For final editorial by the BIML editor.
Austria	96	B.3	Editorial comment	Next page	Editorial. For final editorial by the BIML editor.
FR	9/89 10/89	0.2.10 0.2.10.7	“Weighing unit” for designating the module under 0.2.10.7 should be renamed “Weighing module” as it is for example in R76 Moreover this might be misleading with figure 1 where 5 refers to weighing unit not in the same way	Rename this module as “weighing module”	Agree to change “weighing unit” to “weighing module” in the draft and in the following clauses: 0.2.10 0.2.10.7 Figure 1 and table beneath 0.2.2.2, 0.2.5, 0.3.4. 0.3.5, 0.3.6.1, 3.8,4.2.1, 0.8.2,4.2.1,

Member/ Org	Page No.	Doc clause	Comments	Proposed change	Secretariat Comments
FR	35/89	4.7.1	As it's impossible to repeat or control such measurements, this kind of instruments (as well as a many hopper weighers) are critical in the sense of risks due to disputes about a transaction. Therefore a DSD seems to be the way to justify the validity of measurements or to identify if some event occurred during a process when the instrument is used in the absence of one trading party.	We suggest to change the wording of 4.7.1 to read : Instruments intended to be used in the absence of one trading party shall be equipped with a data storage device which record the measurement result accompanied by information to identify the particular transaction and reconstruct it later. This device may be internal or external. In all cases the stored data shall be adequately protected against intentional and unintentional changes during the data transmission and/or storage process.	Agree to include a new bullet (e) in 4.7.1 (subject to SC2 approval) as follows: (e) Instruments intended to be used in the absence of one trading party shall be equipped with a data storage device which record the measurement result accompanied by information to identify the particular transaction and reconstruct it later.

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POLAND			We suggest to amend following comments to the OIML R50-1&2 (numbers of the pages and points relate to the clean version): • page 59, point A.7.2.3.2, small editorial note – there is no space in the phrase 4.1.2 under conditions… • page 70, table 15 – there is no clear what the indices in the table are referred to Additionally, we would like to notify again one additional comment, that it was not amended in the current version - in the bibliography in ref.19 instead of the IEC norm number 61000-4-2 should be number IEC -61000-4-5.		A.7.2.3.2 - Agreed. For final editorial by the BIML editor. Agreed. The note in Table 15 should be numbered as follows: **1.** For EUTs having no mains or other I/O ports available so that the test according to A.7.3.5.2 cannot be applied, the lower limit of the radiation test is 26 MHz. **2.** In this case for the frequencies from 26 MHz up to 80 MHz the similar test method as described in IEC 61000-4-3 is to be applied. Agreed. In bibliography [19] please change: ~~IEC 61000-4-2~~ IEC 61000-4-5 Ed. 2.0 (2008-12) Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test. **Other bibliography related references to be corrected are as follows:** A.7.2.4 IEC 61000-4-11 ~~[18]~~ [17] A.7.2.5 IEC 60654-2 ~~[18]~~ [16] A.7.2.5 IEC 61000-4-11 ~~[16]~~ [17] A.7.3.1 IEC 61000-4-11~~[19]~~ [17] A.7.3.2 IEC 61000-4-4 ~~[20]~~ [18] A.7.3.3 IEC 61000-4-5 ~~[21]~~ [19] A.7.3.4 IEC 61000-4-2 ~~[22]~~ [20] A.7.3.5.1 IEC 61000-4-3 ~~[23]~~ [21] A.7.3.5.2 IEC 61000-4-6 ~~[24]~~ [22]

Member/ Org	Page No.	Doc clause	Comments	Proposed change	Secretariat Comments
UK	9, 5, 11,13, etc.	0.1.3, 2.5, 2.7.4.3, 2.8.5, 3.4.6, 3.9.3, 0.2.11.2. 0.3.7, 4.5.4,etc	Editorial, Spacing between words required, for example: In 0.1.3, "typeis" should be "type is" In 0.3.7, "minimum totalized load,Σmin In 2.5, "not exceed35 % of" In 0.2.11.2, [OIML R 60][7] In 4.5.4, "…that information for at least5 minutes…"	Amend text spacing errors here and in other parts of the terminology section.	BIML Editorial work
UK	28	2.7.5.3 Discriminatio n of the totalisation indicating device used for zero totalization	Editorial: Remove strikethrough from the last 2 bulletin: c) ~~0.1~~ % for class 1; d) ~~0.2~~ % for class 2.	Amend to: c) 0.1 % for class 1; d) 0.2 % for class 2.	Amended. Remove strikethrough in bulletin c) and d) : c) 0.1 % for class 1; d) 0.2 % for class 2.
UK	40	5.1.6.6	Editorial: *v*min≤ Max/(*S*×*R*/	Amend to: $V_{min} \leq$ Max/(S×R/	Agreed. Amend to: $V_{min} \leq$ Max/(S×R/
UK	49	**A.3.7.3**	Editorial: Spacing between text required. MPE0.35 %	Amend to: MPE 0.35 %	Agreed. BIML editorial work. Must remove spacing between words in several parts of the document.
UK	50	A.5.2	Editorial: Double full stop at the end of the second paragraph. …shall be conducted. .	Delete one full stop.	Agreed, Must delete the double full stop.

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UK	59	A.7.2.3.2 Number of test cycles	Editorial: Please remove this requirement as it is in contradiction with the requirement in Table 6a. *At least two test cycles are conducted:* *Test 1: At reference temperature and 50 % R.H. immediately before the cyclic humidity test start.* *Test 2: At reference temperature and 95 %R.H. immediately after the last cycle has ended.*	Delete requirement.	Disagreed. Requirement was proposed by Denmark to clarify the number of test cycles required.
UK	70	A.7.3.5.1, A.7.3.5.2 Test information:	Editorial: In accordance with the note is A.7.3.5, …	Amend to: In accordance with the note ~~is~~ in A.7.3.5, …	Agreed. Editorial amendment.
UK	76	A.9.1.2 Maximum variation during zero-load test (2.8.4)	Editorial: First paragraph is highlighted in yellow.	Remove yellow highlight from first paragraph.	Agreed. Editorial amendment.
UK	58	A.7.2.3.1 Test Information	Remove the full stop between " …and the maximum flowrate. and repeated again at..."	Delete the full stop between the words.	Agreed, Delete repeated full stop..
NZ		general	The symbol for mass flow in ISO 80000-4 is qm (for volume flow it is qv)	Suggest replacing Q by qm	Ian Dunmill will look at the ISO 80000-4 and explore how to make this change after the 49th CIML vote.

Member/ Org	Page No.	Doc clause	Comments	Proposed change	Secretariat Comments
NL		0.2.10 Figure 1	The way presented in figure 1 and in the table below the figure a “weighing unit” is part of a “weighing unit” which is of course incorrect. Probably an earlier comment was misunderstood. It was not the intention to change “weighing module”(0.2.10.7) in the table to “weighing unit”. Moreover Figure 1 item 5 does not concern a “Weighing unit” . It is suggested to rename 5 to “further data processing (totalising)”	Replace in the figure “Weighing unit” by “further data processing (totalising)” See proposal at the end of the comments. Revert “weighing unit” back to “weighing module”	Agree to this change. This will align R50 with R76 and other similar Recommendations. Will ask Ian to make this amendment in the FDR.
NL		0.2.10.7	See comment above. As to be in agreement with 0.2.10:	Change “weighing unit” to “weighing module”	Agree as indicated above. Change will be made following 49th CIML.

Member/ Org	Page No.	Doc clause	Comments	Proposed change	Secretariat Comments
NL		0.3.2	weigh length (WL) distance between the two imaginary lines at the half distance between the axes of the end weighing rollers and the axes of the nearest carrying roller . When there is only one weighing roller, the weigh length is equal to half the distance between the axes of the nearest carrying rollers on either side of the weighing roller. The definition is difficult to understand. Furthermore due to the formulation of the definition it cannot be used as a substitute of the term.	Suggest for clarity to add a drawing, see proposed figure at the end of the comments. and suggest to split up as follows weigh length (WL) Either: distance between the two imaginary lines at the half distance between the axes of the end weighing rollers and the axes of the nearest carrying roller . or in case there is only one weighing roller: half the distance between the axes of the nearest carrying rollers on either side of the weighing roller.	Agree to proposal. Terminology to be split and drawing will be used to clarify the terminology. This is subject to the BIML approval because we are now at the final stage of the revision.
NL		2.2.2 last paragraph	This paragraph is superfluous while it is replaced by the clause 5.1.6.7. Because of not being exactly the same requirement the last paragraph now is in contradiction with 5.1.6.7. (in R50:1997 5.1.6.7 did not exist)	Delete last paragraph	Agree to delete the last paragraph of 2.2.2 as it is superfluous. Ian, please note that 5.1.6.7 is missing from the Draft Revision of R 50-1 & -2 - Clean version.

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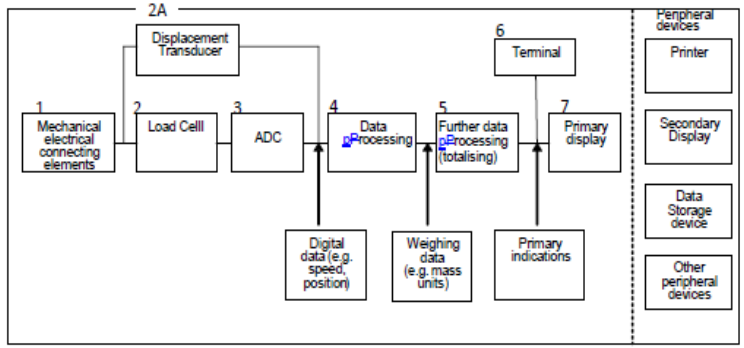
NL		5.1.6.5	The clause is now very difficult to understand and probably not correct. If e is replaced with d the requirements from R76 can be copied (or a reference to R76?)	Title: Minimum input voltage per totalisation scale interval of the indicator A device intended for analogue load cell(s) shall be tested at the minimum input voltage signal per totalisation scale interval, specified by the manufacturer. This is assumed to be the worst case for the performance tests and for the disturbance tests. A complete belt weigher shall not be configured in such a way that its input voltage signal per totalisation scale interval is below the value used ~~at~~ during type evaluation	Agree to amend clause 5.1.6.5 as proposed. Also, 5.1.6.5 is missing some of the text is missing from 5.1.6.6 in Draft Revision of R 50-1 & -2 - Clean version.
NL		6.2.1 second paragraph	It is needed to apply "uncertainty" instead of "accuracy" because the calculation of "accuracy" is undefined. In general accuracy is a applied as a non-quantitative expression Only replacing "accuracy" by "uncertainty" however would lead to an incorrect clause	"The control instrument used for product testing shall enable the determination of the true quantity value of the mass of each test load to an uncertainty not exceeding ~~accuracy of at least~~ one-third of the appropriate maximum permissible error for automatic weighing in 2.2.1, Table 1."	Agree to the amendment proposal.
NL		6.3	The figure does not help in understanding where to put the load.	Clarify picture	The description in the 3rd paragraph of 6.3 and the diagram seems sufficient enough to described how the test load is distributed along the load receptor in line with the direction of belt travel.

Member/ Org	Page No.	Doc clause	Comments	Proposed change	Secretariat Comments
NL					Agree to amend Figure 1 as proposed and to insert a new diagram to clarify weigh length terminology in 0.3.2.



Proposal Figure 1

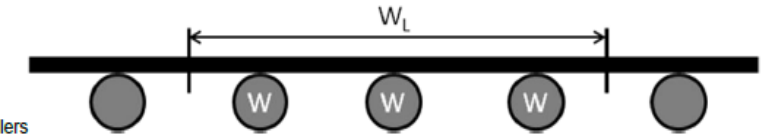


Illustration of Weigh length for 2 or more weighing rollers

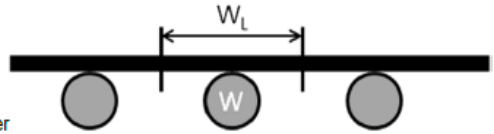


Illustration of Weigh length for 1 weighing roller