

CONSULTATIVE COMMITTEE FOR MASS AND RELATED QUANTITIES (CCM)

The CCM recommends the JCRB to amend part of the text in Appendix A1 in CIPM-MRA-P11, because the present text has caused and will cause confusion.

The passage in Annex A1 that should be changed is the following:

"A CMC is deemed to cover services that meet all of the following criteria:

a) Use the same instrument type/measurement method as that identified in the CMC, noting that more than one instrument type/measurement method can be listed in one CMC, b)..."

This wording indicates that it is not allowed to use the CIPM MRA logo when a worse gauge as listed in the CMC line (higher intrinsic uncertainty of the instrument) has been calibrated. The text encourages to list all possible instruments that an NMI is ready to calibrate so that the calibration is in line with the MRA.

This, however, was not the idea of the CMCs. If we list several instruments with largely different quality in one CMC, how one should know, to which one the uncertainty applies?

This is in conflict with the CIPM-MRA-G13:

Section 2.3 "There should be no ambiguity as to the best measurement uncertainty that can be expected from a CMC."

and

Appendix A, Note 1, "The meanings of the terms Calibration and Measurement Capability, CMC,(as used in the CIPM MRA), and Best Measurement Capability, BMC, (as used historically in connection with the uncertainties stated in the scope of an accredited laboratory) are identical."

and

Note 5 "CMC uncertainty statements anticipate this situation by incorporating agreed-upon values for the best existing devices."

and

also, indirectly, to Section 4 "The KCDB is not intended to be a catalogue of CRMs that can be delivered by the institutes." , although this is dealing with reference materials.

We propose to rephrase the text as follows:

"A CMC is deemed to cover services that meet all of the following criteria:

*a) Use the same **reference standard** as that identified in the CMC,*

b) ..."