

FINAL DRAFT
RECOMMENDATION

Draft 8

48th CIML Meeting

Ho Chi Minh City 2013

INFORMATION

New Recommendation

Instruments for continuous measurement of CO, NO_x
in stationary source emissions



ORGANISATION INTERNATIONALE
DE MÉTROLOGIE LÉGALE

INTERNATIONAL ORGANIZATION
OF LEGAL METROLOGY

**Project Number 76 (CIML preliminary online ballot - DR "Instruments for continuous measurement of CO, NOx in stationary source emissions")****Deadline: 2013-01-31**AUSTRALIA voted Yes on 2012-11-13 ([Comments](#))

BELGIUM voted Yes on 2012-09-04

BRAZIL voted Yes on 2013-01-25

BULGARIA voted Yes on 2013-01-28

CANADA voted Yes on 2012-09-18

CYPRUS voted Yes on 2012-11-14

CZECH REPUBLIC voted Yes on 2013-02-04

FINLAND voted Yes on 2013-01-04

FRANCE voted Yes on 2012-11-09

GERMANY voted Yes on 2012-11-01

IRAN voted Yes on 2012-11-18

ITALY voted Yes on 2013-01-30

JAPAN voted Yes on 2012-11-05 ([Comments](#))

KAZAKHSTAN voted Yes on 2012-11-06

KENYA voted Yes on 2013-01-18

MONACO voted Yes on 2012-08-20

NETHERLANDS voted Yes on 2012-09-13

NEW ZEALAND voted Yes on 2013-01-15

NORWAY voted Yes on 2013-01-29

P.R. CHINA voted Yes on 2012-11-26

POLAND voted Yes on 2012-10-29

PORTUGAL voted Yes on 2013-01-31

ROMANIA voted Yes on 2012-11-09

RUSSIAN FEDERATION voted Yes on 2012-08-15

SAUDI ARABIA voted Yes on 2013-01-23

SERBIA voted Yes on 2012-09-20

SLOVAKIA voted Yes on 2012-11-14

SLOVENIA voted Yes on 2013-01-21

SOUTH AFRICA voted Yes on 2012-08-16

SWEDEN voted Yes on 2012-11-22

SWITZERLAND voted Yes on 2012-10-31

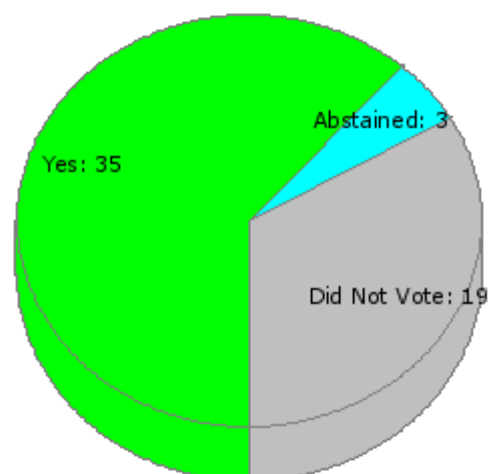
TANZANIA voted Yes on 2013-01-29

UNITED KINGDOM voted Yes on 2012-11-13

UNITED STATES voted Yes on 2012-11-01

VIET NAM voted Yes on 2012-11-14

AUSTRIA Abstained on 2013-01-31



DENMARK Abstained on [2012-11-05](#)

INDONESIA Abstained on [2012-09-13](#)

Countries who did not vote (19)

ALBANIA, ALGERIA, BELARUS, CROATIA, CUBA, EGYPT, GREECE, HUNGARY, INDIA, IRELAND, ISRAEL, KOREA (R.), MACEDONIA (F.Y.R.), MOROCCO, PAKISTAN, SPAIN, SRI LANKA, TUNISIA, TURKEY.

Draft of Recommendation
Instruments for continuous measuring CO and NOx in stationary source emissions

Synthesis of comments received on CIML online ballot

Country code	Clause/ paragraph/ table	general/ editorial/ technical	COMMENTS	PROPOSED CHANGE	OBSERVATIONS OF THE SECRETARIAT on each comment submitted
AU	7.1.1	editorial	First sentence of this clause makes reference to 'type I evaluation' and is unclear.	Suggest deleting reference to 'type I evaluation' and replacing with "type evaluation"	Accepted
JP	2.1	editorial	NOx is a general expression for NO, NO2 and other nitrogen oxides. As an exact expression, it should be written as "sum of two kinds nitrogen oxides (NO and NO2)". It is because there are other kinds of nitrogen oxides N2O, N2O5, etc.	Replace "sum of nitrogen monoxides (NOx)" in line 4 with "sum of nitrogen oxides (NOx)".	Accepted
JP	3.2	editorial	The paragraph of 5th dot point (condensate separator ...) is not clear. Does it mean "to prevent condensation", or "to prevent formation of foam"?	We cannot propose a change because the meaning is not clear.	Accepted. Wording was improved.

Country code	Clause/ paragraph/ table	general/ editorial/ technical	COMMENTS	PROPOSED CHANGE	OBSERVATIONS OF THE SECRETARIAT on each comment submitted
JP	2.3, 3.1 or 4.1	technical	Usually, CGMs are based on dry gas, but sample from stack is wet and contains water vapor at high concentration. In the present draft, it is not clear how moisture content in the sample gas is considered in the measurement process.	A treatment of moisture contained in the sample, as well as its influences on the measurement of sample volume, should be mentioned in a certain clause.	It is mentioned in the Note to item 2.3: Note: A sample line may include devices such as coarse and fine filters, dryers or separators which are necessary to prepare the sample for analysis (ISO 7504:2001). It means that no moisture will get into the system.