

# OIML D7 Working Group Investigative Report

09-May-27

## Summary

At the February 2008 OIML TC8/SC5 meeting in Switzerland, the sub-committee agreed to form a Working Group to study the possibility of revising OIML D7 (The evaluation of flow standards and facilities used for testing water meters). The Working Group met in June 2008, in London, to review the document. The Working Group concluded that the vast majority of the information found in the document can be found in other more up-to-date documents. There is also a strong belief that there is no longer a need for this document given that ISO 17025 has become the international standard that is primarily used for evaluating the General requirements for the competence of testing and calibration laboratories. At the recent OIML TC8/SC5 General Meeting, in Ottawa, the Working Group recommended to the OIML TC 8/SC 5 Secretariat that a formal vote from TC 8/SC 5 'P' Members should be requested on whether to revise, confirm, or withdraw OIML D7. The Working Group recommends that the document D7 should be withdrawn.

## Review of Document D7

Item	Section of D7	Page	Comment
1	n/a	n/a	Overall the document is poorly written and most of the main content of the document can be found in other more up-to-date sources.
2	Terminology	3	This section is placed before the Scope of the document. This is a different format than is used by other more up-to-date documents ex. R 49-1
3	Terminology	3	More up-to-date terminology is found in OIML V1, OIML V2-200 and ISO 4006
4	2.	5	The water meter calibration methods and the flow standards employed is fully described and covered in OIML R 49-2, 6.3.2.XXX, ISO 8316 and ISO 4185.
5	2.3	6	The OIML D5 document is dedicated to the hierarchy and traceability of test standards. If there is any special requirements for the hierarchy and traceability of standards used for water meter testing then they should be included in this document
6	2.4	6	Measurement Uncertainties are covered in great detail in OIML G1-100, OIML G101-100 and ISO 5168.
7	2.4, APPENDIX I APPENDIX II	6 to 18	International inter-comparison exercises are usually conducted under the auspices of BIPM/CIPM and they have a guideline on how these exercises should be completed. <a href="http://www.bipm.org/utis/en/pdf/guidelines.pdf">http://www.bipm.org/utis/en/pdf/guidelines.pdf</a>
8	APPENDIX III	19	Flow straighteners. There is a plethora of information on flow straighteners from many different sources and it is now widely available on the internet. OIML TC8/SC5 could also recommend to ISO TC30/SC7 that the information in APPENDIX III could be added to ISO 4064 Part 5 (under development) as an informative ANNEX.
9	n/a	n/a	There is also a concern that the OIML D documents are intended to be informative in nature and intended to improve the work of the metrological services. The title of the current document is the "The

			evaluation of flow standards and facilities used for testing water meters". At this time it seems that most jurisdictions are using ISO 17025 as the basis for determining the general requirements for the Competency of testing and calibration laboratories (including water meters). It is difficult to believe that a jurisdiction would use an OIML D document to evaluate a test facility when ISO 17025 is the de-facto standard for this type of exercise.
10	n/a	n/a	<p>If is the intention of D7 is to provide information on theses subjects there may be many other sources Where information can be obtained on test facilities or test equipment. There is also a better likelihood that the information provided is up-to-date.</p> <p>Ex.  <a href="http://www.tuvnel.com/(S(x5dpl445my3czlq0ihmfa555))/content/pdfs/water_flow_facility.pdf">http://www.tuvnel.com/(S(x5dpl445my3czlq0ihmfa555))/content/pdfs/water_flow_facility.pdf</a>   <a href="http://www.fciiindia.com/watermanagement.asp">http://www.fciiindia.com/watermanagement.asp</a>  <a href="http://www.meterservices.co.nz/html/FINAL%20brochure.pdf">http://www.meterservices.co.nz/html/FINAL%20brochure.pdf</a>  <a href="http://ts.nist.gov/MeasurementServices/Calibrations/flow.cfm">http://ts.nist.gov/MeasurementServices/Calibrations/flow.cfm</a>   <a href="http://www.ptb.de/en/org/1/_index.htm">http://www.ptb.de/en/org/1/_index.htm</a>   <a href="http://www.marswater.com/newsite/testbenches.htm">http://www.marswater.com/newsite/testbenches.htm</a>   <a href="http://www.fordmeterbox.com/">http://www.fordmeterbox.com/</a>  <a href="http://www.wirakerjaya.com.my/hydrotech/Test_bench_brochure.pdf">http://www.wirakerjaya.com.my/hydrotech/Test_bench_brochure.pdf</a>   <a href="http://www.vemit.fi/KalibroFMT?sl=en&amp;gclid=CJOgxd_89ZkCFSAhDQodMIKhRg">http://www.vemit.fi/KalibroFMT?sl=en&amp;gclid=CJOgxd_89ZkCFSAhDQodMIKhRg</a></p>

**Conclusion and Recommended Actions:**

The original OIML TC8/SC5 vote on the revision/withdrawal of OIML D7 was extremely close (6 for revision and 5 for withdrawal) see APPENDIX II. The Working Group has now had more time to study the document in greater detail. At the recent meeting in Ottawa, a decision was made that the best course of action is to recommend to the full OIML TC8/SC5 sub-committee that that the document be withdrawn. In addition, it was felt that given the workload that is required to harmonize the OIML/ISO/CEN water meter documents and the uncertainty of what a new document should include, the best step is not to proceed at this time with developing any replacement document.

The Working Group would like to propose to the OIML TC 8/SC 5 Secretariat that he proceed with a request for a formal vote from TC 8/SC 5 'P' Members on whether to revise, confirm, or withdraw OIML D7. The request for a formal vote should be accompanied with an investigative report on OIML D7 which had been prepared by Mr. James Welsh, Convenor, OIML D7 Revision Working Group.

## APPENDIX I

### Results of Votes of OIML TC8/SC5 “P” Members On the Future of Documents D4 and D7

	D4		D7		
	Option 1	Option 2	Option 1	Option 2	Option3
Country	Withdraw	Revise	Withdraw	Revise	Increase scope
Australia	1		1		
Canada		1		1	
Czech Republic		1		1	
Germany	1		1		
Japan	1		1		
Netherlands	1		See Note 1		
Poland	1			1	
Russia	1		1		
Slovakia	1			1	
South Africa	1			1	
Switzerland	1		1		
United Kingdom	1			1	
TOTAL	10	2	5	6	

**Note 1:** To keep the D7 as it is for now and to consider its content in the harmonisation process of the OIML R49/ISO 4064/EN 14154. Upon completion of this process to decide what the best option for D7 could be.

The vote was taken in the spring of 2007. The results of the votes were communicated (via e-mail) by the Chairman of OIML TC8/SC5 on July 13, 2007.