



Asia-Pacific Legal Metrology Forum
18th Meeting – September 2011
Busan, Republic of Korea



Utility Meters Working Group

Meeting Agenda

- n Update on 2011 APLMF activities.
- n Update and discussion on OIML activities related to utility meters.
- n Action plan for 2012.



2011 APLMF Activities



Training on Utility Meters

2011 APLMF Activities

- n There was no APLMF training delivered for utility meters in 2011.
- n The APLMF Utility Meters Survey was not updated as previously planned.



2011 OIML Activities



Utility Meters

2011 OIML Activities

Electricity Meters

TC 12 - R46

APLMF members:

- Australia (P)
- Canada (P)
- PR China (O)
- Indonesia (O)
- Japan (P)
- Rep. of Korea (P)
- Russia (P)
- USA (P)

- CD1 was issued in June 2004
- Meeting was held in Nov. 2005
- CD3 was issued in March 2006
- Comments on CD3 made in June 2006
- No meetings in 2007 and 2008
- Secretariat transferred to Australia in 2008
- CD4 was issued in early 2009
- Meeting held in June 2009 in Slovenia
- CD5 was issued in August 2010
- **Meeting held in June 2011 in London, U.K.**
- **CD6 was issued in August 2011**
- **Vote closing date on CD6: 18 Nov. 2011**
- **CD6 to become DR if vote is positive**

OIML TC12 Meeting – June 2011

- n Over the course of June 22-24, 2011, OIML TC-12 held a meeting to discuss the latest committee draft CD5, of R46. The meeting attendees included 12 countries. The group reviewed the entire document as well as associated comments.

- n Some of the concerns addressed at the meeting included:
 - n **Register Resolution:** A clause has been added to explicitly ensure the non-volatility of the energy registers. The document also provides for the National Authority to specify register resolution and include a base requirement to ensure that typically resolutions of 5 to 6 digits are provided.
 - n **Interval Meters:** There was a concern that requirement for storage of interval data and its implied 30 minute interval length. It was agreed that the National Authority would be able to set the requirements for interval data including the storage requirements as needed
 - n **Protection of metrological properties:** There were several comments related to section 3.6. of the document regarding the relative vagueness of using the term “authorized access”. It was agreed that a clause would be included to allow the National authority to establish levels for authorized access. With regards to software updates, a modified section 3.6.8 has been provided jointly by Slovenia and France. This was developed outside of the committee and with the expectation that it is in line with OIML D31. This section requires review. The inclusion of D31 requirements is very important with the development of electricity distribution smart grids and the mass deployment of smart meters.
 - n **Durability:** A concern was the onerous nature of a 1000 hour assessment for durability. The committee has reintroduced the requirement for manufacturers to provide documentation supporting any durability claims. In addition to this the durability assessment is now based on either an ANSI or an IEC test as determined by the national authority. Unless ANSI introduces requirements, the IEC 62059-32 may remain as the only option for durability assessments.

2011 OIML Activities

Water Meters

TC8/SC5 -R49

APLMF members:

n Australia (P)

n Canada (P)

n PR China (P)

n Indonesia (O)

n Japan (P)

n Dem. Rep. Korea (O) Issued 1CD in December 2009

n Rep. of Korea (P) • Meeting in April 2010 in Paris

n Russia (P)

n USA (P)

- Meeting: February 2008, in Zurich, Switzerland

- Created JWG to develop harmonized water meter standards:

- OIML R 49-1,
- ISO 4064 and
- EN 14154

- Meeting in June 2008, in London, UK

- Issued 1CD in December 2009

- Meeting in April 2010 in Paris

- **Issued 3CD in May 2011**

- **Meeting in November 2011 in Washington**

2011 OIML Activities

Work on Water Meters

- MAA Program for Water Meters (R 49)
 - Started in 2008
 - 2 Issuing Countries
 - 5 Utilizing Countries
- Performance tests are performed as outlined in R 49-2

2011 OIML Activities

Work on Natural Gas Meters

TC8/SC7

APLMF

members

- Australia (P)
- Canada (P)
- PR China (P)
- Japan (P)
- Russia (P)
- USA (P)

n R-137 Gas Meters

- n DR approved at the 2007 CIML meeting
- n 1CD Issued in October 2009
- n Meeting in June 2010 in the Netherlands
- n 2CD Issued in September 2010
- n **DR to be submitted to the CIML for adoption in October 2011**

n R-139 Compressed gaseous fuel measuring systems for vehicles

- n Meeting in June 2010 in the Netherlands
- n **1CD expected later in 2011**

2011 OIML Activities

Sampling Plan/Statistical Methods

TC3/SC4

(High Priority)

APLMF members:

- Australia (P)
- Canada (O)
- PR China (P)
- Japan (P)
- Russia (P)
- USA (P)

n Surveillance of utility meters in service on the basis of sampling inspections

- n 1CD issued in April 2004
- n 2CD issued in Feb. 2006
- n Meeting in November 2006
- n 3CD issued in July 2010
- n **Information Session to be held at the CIML meeting in October 2011 in Prague**

Proposed Action Plan for 2012

- n Develop and organize training as per the agreed APLMF training plan
- n Update Utility Meters Survey information
- n Follow OIML work related to utility meters and inform APLMF members