**ANSI B109.zero Key Issues Chart**

10 November 2010

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| **Issue #** | **Priority****(A – B – C)** | **Old (1CD) Section #** | **New (2CD)****Section****#** | **Issue** | **Resolution** | **Person Responsible/****Additional Comments** |
|  |  |  |  |  |  |  |
| 0.5 | B | 3 | 3 | Terminology –Add the terminology to the working draft. Two terms need definitions:• Temperature at standard pressure;• Maximum pressure error | Ardis, done and ready for comment by the ad hoc group. | Ardis |
| 1 | A | 2 | 2 | Scope – Issue – removed correction devices and energy units. Need to edit the paragraph beginning with “Built-in….” | Kept “all gasses” | Ralph |
| 2 |  | 5.3.4& 5.9 |  | – dealing with the temperature – increased error allowances for temperature variances.What is the chart that was discussed at OIML? | US needs to submit a proposal to NL on text for section 5.9 & testing requirements  | Lee |
| 3 | B | 5.4 | 5.4 | Weighted Mean Error (WME) – OIML apparently resolved the issue.  | Ralph will install the revision and present to the AD HOC group for review. | Ralph |
| 4 |  | 5.6 & 5.7 & 11.4.2 & 11.4.3 | 5.6 & 5.7 & 12.4.3 & 12.4.4 | Reproducibility and Repeatiability - significantly discussed and requires review of the OIML text. |  | Chris + Winston |
| 5 |  | 5.10 & 11.4.9 | 5.10&12.4.10 | Durability –  | Add update from Delft meeting and submit to Ad Hoc group to review. | Phil W. |
| 6 |  | 5.12 & 11.4.13 | 5.12&12.4.14 | – Vibrations and Shocks – Pending feedback from manufacturers. Review the comparison of what is in .1,.2., etc. AD HOC group to review section. (Scott questioned the 50mm height fall.) |  | Scott Follin made comment (1 – 2 – 3 ft ??)Cathy Chang + ChrisChris: what is the outcome of this testing?? Remain fully accurate after testing. |
| 7 |  | 5.13.3 | 5.13.3& Annex B | Flow Disturbance – Phil D. indicates that the statement is vague and must be in line with the other standards. |  | Phil D. |
| 8 |  | 5.13.4 & 11.4.10 | 5.13.4&12.4.11 | Drive shaft torque – Discuss and resolve how to present in the document. | External devices are an issue hereTod and Bob will revise their proposal | AGA 7Winston + Tod |
| 9 |  | 5.13.6 & 5.14.8 & 11.4.14 – | 5.13.6&6.1.8&12.4.15 | Interchangeable Components – Issue is how can a component be replaced without recalibration. – Should this be in the document?? | WG question: why is Qmin to Qt not taken into consideration in this test method?? | Phil W.+ Tod will review again |
| 10 |  | 5.14.5 & 5.17.1 & 5.17.4 | 6.1.5 &6.3 | Indicating devices – is this appropriate for the standard – does the meter require the indicator to be meter mounted?? |  | Lee |
| 11 |  | 5.18 | 6.4 | Test Element -- review whole section. |  | All |
| 12 |  | 5.20 | * .6
 | 6.6 Power Sources –  | Review the changes in the 2CD of OIML R137. | All |
| 13 |  | 5.21 | 6.7 | Checks, limits, and Alarms for Electronic Gas Meters – review and edit |  | Chris + Lee |
| 14 |  | 8.1 | 9 |  Review Sealing and verification markings – several sections may be removed following the review. |  | Elster/ Tod(all manf) |
| 15 |  | 9.1 | 10&**12.3.4** | use of different gases for testing – review and edit for agreement. | Section moved to 12.3.4 in OIML | Elster/Tod |
| 16 |  | 10.1.2 | 11.1.2 | Uncertainty statements and calculation – AD HOC group review for consistency. |  | NIST (Ralph) + All |
| 17 |  | 11 | 12 | Type approval discussion – “TYPE APPROVAL”? |  | All + Chris |
| 18 |  | 11.2 | 12.2 | Documentation – Manufacturers to review |  | All manf |
| 19 |  | 11.4.6 | 12.4.7 | Working Pressure – Review Delft documents | Significant discussions in Delft – review comments and from CEN, Germany, US, etc. & responses from NL & new text | All manf |
| 20 |  | 11.4.7 | 12.4.8 | Temperature – Review |  | Lee |
| 21 |  | 11.4.15 & 11.4.16 | 12.4.16& | Electronics  |  | All manf |
| 22 |  | 11.5 | 12.5 |  Type Approval Certificate – Review |  | All manf |
| 23 | A |  | **Annex I (new!)** | **Software – new Annex needs review!** |  | All manf |
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