SPRING SINGAPORE CALLS FOR PUBLIC COMMENTS ON SINGAPORE STANDARDS – 5 AUGUST 2016

Singapore Standards are established based on an open system which is also in accordance with the World Trade Organisation requirements. SPRING Singapore is inviting public comments for the following drafts and Singapore Standards:

(I) **Biomedical**

1. **Proposed new work item**

   (NOTE: For information only – The draft is not available at this juncture)

   (II) **Electrical and Electronic**

   New

2. **Low-voltage switchgear and controlgear assemblies**

   *Part 1 : General rules* (Modified adoption of IEC 61439-1:2011)

   This standard specifies the definitions and states the service conditions, construction requirements, technical characteristics and verification requirements for low-voltage switchgear and controlgear assemblies.

   *Part 3 : Distribution boards intended to be operated by ordinary persons (DBO)* (Modified adoption of IEC 61439-3:2012)

   This standard defines the specific requirements for distribution boards intended to be operated by ordinary persons (DBO). DBOs may also include control and/or signalling devices associated with the distribution of electrical energy.

   It applies to all DBOs whether they are designed, manufactured and verified on a one-off basis or fully standardised and manufactured in quantity. DBOs may be assembled outside the factory of the original manufacturer.
These two standards do not apply to individual devices and self-contained components, such as circuit breakers, fuse switches, electronic equipment, etc., which will comply with the relevant product standards.

Potential users of the standards may include manufacturers, test laboratories, professional engineers, consultants, building managers, LEWs and contractors.

(III) Management Systems

New

3. *Conformity assessment – Requirements for bodies providing audit and certification of management systems, Part 2 : Competence requirements for auditing and certification of environmental management systems* (Identical adoption of the upcoming ISO/IEC 17021-2)

This standard specifies the additional competence requirements for personnel involved in the audit and certification process for environmental management systems (EMS) and complements the existing requirements of SS ISO/IEC 17021-1.

NOTE – This standard is currently based on the Draft International Standards (DIS) but the final adoption will be based on the published ISO standard.

Potential users of the standard are the certification bodies.

Proposed new work items

(NOTE: For information only – The drafts are not available at this juncture)

4. Conformity assessment – Requirements for bodies providing audit and certification of management systems – Part 3 : Competence requirements for auditing and certification of quality management systems (Identical adoption of the upcoming ISO/IEC 17021-3)

This standard specifies additional competence requirements for personnel involved in the audit and certification process for quality management systems and complements the existing requirements of SS ISO/IEC 17021-1.

Potential users of the standard are the certification bodies.

5. General requirements for the competence of testing and calibration laboratories (Identical adoption of the upcoming ISO/IEC 17025)

This standard specifies the general requirements for the competence to carry out tests and/or calibrations, including sampling. It covers testing and calibration performed using standard methods, non-standard methods and laboratory-developed methods.

Potential users of the standard may include organisations performing tests and/or calibrations, laboratory customers, regulatory authorities and accreditation bodies.
(IV) **Manufacturing**

**Proposed new work items**

(NOTE: For information only – The drafts are not available at this juncture)


This standard specifies safety requirements for collaborative industrial robot systems and the work environment, and supplements the requirements and guidance on collaborative industrial robot operation given in ISO 10218-1 and ISO 10218-2.

Potential users of the standard may include robot manufacturers, machine builders, integrators and end-users.

7. **Standard terminology for additive manufacturing – Coordinate systems and test methodologies** (Identical adoption of ISO/ASTM 52921:2013)

This standard includes terms, definitions of terms, descriptions of terms, nomenclature, and acronyms associated with coordinate systems and testing methodologies for additive manufacturing (AM) technologies.


This standard establishes and defines terms used in AM technology, which applies the additive shaping principle and thereby builds physical 3D geometries by successive addition of material. The terms have been classified into specific fields of application.

9. **Additive manufacturing – General principles**

**Part 2 : Overview of process categories and feedstock** (Identical adoption of ISO 17296-2:2015)

This standard describes the fundamentals of AM. It explains how different process categories make use of different types of materials to shape a product’s geometry. It also describes which type of material is used in different process categories.

**Part 3 : Main characteristics and corresponding test methods** (Identical adoption of ISO 17296-3:2014)

This standard covers the principal requirements applied to testing of parts manufactured by AM processes. It specifies main quality characteristics of parts and appropriate test procedures. It also recommends the scope and content of test supply agreements.

**Part 4 : Overview of data processing** (Identical adoption of ISO 17296-4:2014)

This standard covers the principal considerations which apply to data exchange for AM. It specifies terms and definitions which enable information to be exchanged describing geometries or parts such that they can be additively manufactured. The data exchange method outlines file type, data enclosed formatting of such data and what this can be used for.

Potential users of the above standards on AM (items 7 to 9) include producers, machine manufacturers, feedstock suppliers, machine users, part providers, researchers, educators, software engineers, reverse engineering systems developers and testing bodies.
Copies of the drafts and standards are available at:

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Mon to Sun: 10 am to 8.30 pm.
Email ref@nlb.gov.sg to schedule an appointment to view the standards.

**NOTE**

1) The viewing period of the drafts will expire on the closing of the 2-month public comments. Drafts will no longer be available after this date.
2) The submission form for comments can be downloaded at http://www.spring.gov.sg/public_comments

The closing date for comments is **6 October 2016** for the establishment of Singapore Standards and **6 September 2016** for the new work items.

For more information on the standards, please contact Mrs Kay Chua, Senior Manager at Tel: (65) 6279 1804 or Email: kay_chua@spring.gov.sg.
Frequently asked questions about public comment on Singapore Standards:

1. **What is public comment?**

   Singapore Standards are established based on an open system which is also in accordance with the World Trade Organisation requirements. These documents are issued as part of a consultation process before any standards are introduced or reviewed. This important stage in the development of Singapore Standards is the Public Comment period. This mechanism helps industry, companies and other stakeholders be aware of forthcoming changes to Singapore Standards and provide them with an opportunity to influence, before their publication, the standards that have been developed by their industry and for their industry.

2. **How does public comment benefit me?**

   The benefits are:
   - It ensures that your views are considered and gives you the opportunity to influence the content of the standards in your area of expertise and in your industry;
   - It enables you to be familiar with the content of the standards before they are published and you stand to gain a competitive advantage with this prior knowledge of the standards.

3. **Why do I have to pay for the standards which are proposed for review or withdrawal?**

   These standards are available for free viewing at Toppan Leefung Pte Ltd and the National Library Board at the addresses given above. However, the normal price of the standard will be charged for those who wish to purchase a copy. At the stage where we propose to review or withdraw the standards, the standards are still current and in use. We seek comments for these standards so as to:
   - provide an opportunity for the industry to provide inputs for the review of the standard that would make the standard suitable for the industry’s use,
   - provide feedback on the continued need for the standard so that it will not be withdrawn,

4. **What happens after I have submitted my comments?**

   The comments will be channelled to the relevant standards committee for consideration and you will be informed of the outcome of the committee’s decision and you may be invited to meet the committee if clarification is required on your feedback.

5. **Can I view drafts after the public comment period?**

   Drafts will not be available after the public comment period.

6. **How do I request for a new standard?**

   You can inform us of your standardisation needs by completing the Proposal Form at Apply for a Standard.