SPRING SINGAPORE CALLS FOR PUBLIC COMMENTS ON SINGAPORE STANDARDS – 3 JULY 2015

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) Building and Construction

Amendment

1. Amendment No 1 to Cleaning performance for public housing estates (SS 533 : 2007)

The amendment updates the frequency of works to be in line with current practices.

(Note: The draft amendment is available for download at: http://www.spring.gov.sg/public_comments)

Review

(NOTE: To review the standards with the intention to confirm them – no new draft/version at this juncture)

2. Cleaning service industry – Cleaning performance for commercial premises (SS 499 : 2002)

This standard specifies the quality of cleaning services to performance standards. The principle of the measuring system that determines the quality of cleaning service is based primarily on visual judgement of the degree of conformance for the selected elements to be inspected.


This standard provides recommendations for surface repair of natural stones, clay brick, calcium silicate brick, glazed and unglazed terracotta, and faience masonry in buildings. It covers repointing and selection of mortars, and provides guidance on treatment for protection of surfaces.

Users of the cleaning standards above include building owners, architects, building surveyors, engineers, managing agents, Town Councils, contractors and academia.

4. Hotel security (SS 545 : 2009)

This standard specifies the key requirements for hotel security and includes the following key elements:

- Assessment and follow-up action;
- Installation and maintenance of security equipment;
- Provision of materials and information outlining security operational procedures;
- Employing and training of security personnel;
- Training of non-security personnel;
- Establishing and reviewing plans and procedures relating to security issues, emergencies and crisis response.
Users of the standard may include hoteliers, government bodies such as Singapore Tourism Board, Singapore Police Force and Singapore Civil Defence Force.

**Proposed new work item**
(NOTE: No drafts available at this juncture)

5. **Technical Reference for facility design guidelines for acute general hospitals**

This TR will specify the general requirements for basic space and design planning of all acute general hospitals in Singapore.

It will provide guidance on the specific needs of related facilities in an acute general hospital to design consultants and personnel who may be involved in the design, construction, operation and maintenance of the acute hospital. It also provides guidance to enhance the quality of patient care by establishing standards to provide appropriate living conditions with considerations of the safety, privacy and dignity for patients, staff and visitors.

Potential users of this TR include architects, designers of hospitals, consultants, medical / healthcare planners and healthcare operators.

(ii) **Chemical Revision**

6. **Specification for elastomeric seals for joints in pipework and pipelines** *(Revision of SS 270 : 1996)*

This standard specifies the requirements and test methods for solid elastomeric joint seals for use in the jointing of pipes for potable water and drainage.

This standard does not cover the following:

- Joint seals made from cellular rubber material or with an enclosed void as part of their design;
- Materials for joint seals used in pipelines carrying industrial chemical effluent or hot water;
- Performance requirements of the finished joint seals, including functional tests on actual sealing systems used with particular pipeline materials.

The revision includes the following:

- Updated the designation of elastomeric joint seals;
- Amended classification of hardness from class 88 to class 90;
- Updated test methods for seals of type WC and WG (drainage);
- Replacement of physical properties for seal type W with that of seal type WA and seal type D with that of seal type WC and WG.

Potential users may include testing bodies, consulting engineers, importers, traders, manufacturers, contractors, specifiers, regulators and relevant government agencies.
(III) **Electrical and Electronics**

**Proposed new work items**
(NOTE: No drafts available at this juncture)

7. **Low-voltage switchgear and controlgear assemblies:**

   **Part 0 : Guidance to specifying assemblies** (Adoption of IEC TR 61439-0-2013)
   **Part 1 : General rules** (Adoption of IEC 61439-1-2011)
   **Part 2 : Power switchgear and controlgear assemblies** (Adoption of IEC 61439-2-2011)

   The purpose of the series of standards is to harmonise as far as practicable, all the general rules and requirements that apply to assemblies. The series further seeks, in order to obtain uniformity of requirements for assemblies, consistency in the verification of assemblies and to avoid the need for verification to other standards.

   Potential users of the above series of standards may include regulators, testing laboratories, engineers, manufacturers and suppliers, contractors, academia and building owners.

8. **Self-ballasted LED lamps for general lighting services with supply voltages > 50 V – Performance requirements** (Adoption of IEC 62612-2013)

   This standard specifies the performance requirements, together with the test methods and conditions, required to show compliance of LED lamps with integral means for stable operation, intended for domestic and similar general lighting purposes, having:
   
   - a rated power up to 60 W;
   - a rated voltage of > 50 V a.c. up to 250 V a.c.;
   - a lamp cap as listed in IEC 62560.

9. **Double-capped LED lamps designed to retrofit linear fluorescent lamps – Safety specifications** (Adoption of IEC 62776-2014)

   This standard specifies the safety and interchangeability requirements, and the exchange operation together with the test methods and conditions required to show compliance of double-capped LED lamps with G5 and G13 caps, intended for replacing fluorescent lamps with the same caps, having:
   
   - a rated power up to 125 W;
   - a rated voltage up to 250 V.

10. **Photovoltaic (PV) module safety qualification**

    **Part 1 : Requirements for construction** (Adoption of IEC 61730-1-2004)
    **Part 2 : Requirements for testing** (Adoption of IEC 61730-2-2004)

    The above standards describe the fundamental construction requirements and testing requirements for photovoltaic modules in order to provide safe electrical and mechanical operation during their expected lifetime. They address the prevention of electrical shock, fire hazards, and personal injury due to mechanical and environmental stresses.
11. Safety of power converters for use in photovoltaic (PV) power systems

Part 1: General requirements (Adoption of IEC 62109-1-2010)

This standard applies to the power conversion equipment (PCE) for use in photovoltaic systems where a uniform technical level with respect to safety is necessary. It defines the minimum requirements for the design and manufacture of PCE for protection against electric shock, energy, fire, mechanical and other hazards. It provides general requirements applicable to all types of PV PCE.

Part 2: Particular requirements for inverters (Adoption of IEC 62109-2-2011)

This standard covers the particular safety requirements relevant to d.c. to a.c. inverter products as well as products that have or perform inverter functions in addition to other functions, where the inverter is intended for use in photovoltaic power systems. Inverters covered by this standard may be grid-interactive, stand-alone, or multiple mode inverters, may be supplied by single or multiple photovoltaic modules grouped in various array configurations, and may be intended for use in conjunction with batteries or other forms of energy storage.

Potential users of the above LED and PV standards may include test laboratories, manufacturers, purchasers, suppliers, professional engineers, consultants, contractors, licensed electrical workers, building owners and relevant government agencies.

(IV) General Engineering and Safety

New

12. *Specification for design of active fall-protection systems* (Modified adoption of CAN/CSA Z259.16-04(14))

This standard specifies requirements for the design and performance of complete active fall-protection systems, including travel-restraint and vertical and horizontal fall-arrest systems.

Potential users of the standard may include professional engineers, manufacturers and suppliers, academia, consultants, testing laboratories, industry associations and relevant government agencies.

Review

(NOTE: Review the existing standards to determine if they should be updated, confirmed or withdrawn if they no longer serve the industry’s needs – no new draft/version)

13. Code of practice for the filling, inspection, testing and maintenance of containers for the storage and transport of compressed gases (CP 12)

Part 1: 2000 Seamless metal containers for gases, excluding dissolved acetylene

This standard specifies the minimum requirements for the filling, inspection, testing and maintenance of transportable seamless metal gas containers of 1-litre water capacity and above. It does not apply to aluminium containers, welded metal containers or to dissolved acetylene containers whether with welded or seamless shells.

Part 2: 1998 Containers for dissolved acetylene gas

This standard specifies the minimum requirements for the inspection and maintenance before filling, filling and periodic inspection and maintenance of transportable dissolved acetylene containers. It applies to containers with water capacity from 0.5 l to 150 l.

The standards will be reviewed with the intention to update them.
14. **Methods of test for flexible plastic packaging materials** (SS 323)

The SS 323 series of standards specifies the methods of test and analysis for flexible plastic packaging materials and contains the following parts:

- **Part 0 : 2013** General introduction
- **Part A2 : 1987 (2011)** Determination of density by the density-gradient technique
- **Part C1 : 2013** Standard test method for tensile properties of thin plastic sheeting
- **Part C2 : 2013** Standard test method for static and kinetic coefficients of friction of plastic film and sheeting
- **Part D1 : 1987 (2011)** Assessment of odour from packaging materials used for foodstuff
- **Part D4 : 1987 (2011)** Determination of resistance to grease and oil
- **Part D5 : 1987 (2011)** Determination of initial tear resistance
- **Part E1 : 1987 (2011)** Determination of water vapour transmission
- **Part E2 : 2013** Standard test method for determining gas permeability characteristics of plastic film and sheeting
- **Part F1 : 2013** Standard test method for seal strength of flexible barrier materials
- **Part F2 : 1987 (2011)** Determination of unrestrained linear thermal shrinkage
- **Part G1 : 1987 (2012)** Determination of printability

These standards will be reviewed with the intention to withdraw them.

(V) **Information Technology**

**Withdrawal**

15. **Classification of construction resources information** (CP 93 : 2002) (Endorsement of *CSI/CSC Masterformat : Master List of Numbers and Titles for the Construction Industry, 1995 Edition*, published by the Construction Specifications Institute, USA)

This standard presents a uniform system for classifying information relating to construction products, materials, services and machinery. It contains a listing of numbers and titles for organising information about construction resources, more specifically, construction products and activities describing the physical aspects of construction.

It is proposed for withdrawal as the base document (*CSI MasterFormat 1995 edition*) is outdated. There is no replacement for this standard.


This standard specifies the QR Code 2005 symbology characteristics, data character encoding methods, symbol formats, dimensional characteristics, error correction rules, reference decoding algorithm, production quality requirements and user-selectable application parameters.
It includes additional informative national annexes on utilising QR and micro QR codes and examples of applications, e.g. patient identification and medicine administration traceability using QR code printed on a patient's wrist band.

This standard is proposed for withdrawal as ISO/IEC 18004 : 2006 has been replaced by the 2015 edition. Users can refer directly to the latest edition of ISO/IEC 18004.

**Review**

*(NOTE: Review the existing standards to determine if they should be updated, confirmed or withdrawn if they no longer serve the industry's needs – no new draft/version)*


This standard specifies an IT security standards framework that provides a comprehensive approach to developing IT security standards and helps to achieve a rigorous application of IT security standards for the organisation. This will enable organisation to implement the appropriate IT security measure to meet their business needs.

The standard is reviewed with the intention to update it.


This standard provides an overview of the Public Key Infrastructure (PKI) standards framework with the aim to facilitate the development and adoption of PKI standards in Singapore.

The standard is reviewed with the intention to confirm it.

Users of the IT standards may include IT professionals, IT security professionals, companies, organisations.

(VI) **Management Consultancy**

**Proposed new work item**

*(NOTE: No draft available at this juncture)*

19. **Technical Reference (TR) for management consultants**

This TR provides a frame of reference for management consultancy. It defines the consultancy process, specifies the competency and ethical requirements, and outlines the scope for continuous professional development of management consultants.

Potential users of this TR include management consultants, clients engaging the services of management consultants, management consultancy providers and trainers, auditors and certification bodies qualifying management consultants.
Copies of the drafts and standards are available at:

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**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 4 September 2015 for the establishment, amendment and withdrawal of Singapore Standards and 4 August 2015 for the review of Singapore Standards and 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 Standards & You.