

Submit Comments

ENTERPRISE SINGAPORE CALLS FOR PUBLIC COMMENTS – 14 JUNE 2019

Under the National Standardisation Programme, the public comment period is an important stage of standards development. Members of the public are invited to provide feedback on draft Singapore Standards for publication and work item proposals for development and review of Singapore Standards and Technical References. The establishment of Singapore Standards is done in accordance with the World Trade Organisation's requirements for the development of national standards.

A) Notification of Draft Singapore Standards for Publication

Members of the public are invited to comment on the following Singapore Standard documents:

Biomedical and Health – [microbiological testing of wipes and masks](#)

Electrical and Electronic – [lighting of work places](#), [temporary electrical installations](#), [photovoltaic \(PV\) modules](#)

Environment and Resources – [water heaters for household use](#)

Quality and Safety – [refuse collection vehicles \(rear end loaders and tanker trucks\)](#)

Food – [milk](#)

For more information on viewing the document, [click here](#).

Closing date for comments: **15 August 2019**.

Please submit comments to: kay_chua@enterprisesg.gov.sg.

B) Notification of New Work Item Proposals

B.1 Proposal for New Work Items

New Work Items (NWIs) are approved proposals to develop new Singapore Standards or Technical References (pre-standards).

Members of the public are invited to comment on the scope of the new standards and contents that can be included into the following proposals:

Robots and Unmanned Aerial Systems (UAS) – [robot deployments](#), [airworthiness of UAS](#), [inspection of building facade using UAS](#)

Electrical and Electronic – [photovoltaic \(PV\) modules](#)

The NWIs are work-in-progress and the [drafts are not available](#) at this juncture.

Closing date for comments: **15 July 2019**.

Members of the public are invited to join as standards partners, resource members or co-opted members subject to the approval of relevant committees and working groups.

To comment or to join in the development of standards, please write to: kay_chua@enterprisesg.gov.sg.

B.2 Proposal for the Review of Singapore Standards

Published Singapore Standards are reviewed to determine if they should be updated, confirmed or withdrawn (if they no longer serve the industry's needs) or classified as mature standards (no foreseeable changes; to be reviewed only upon request).

Members of the public are invited to comment on the scope and contents of the following standards to be reviewed:

Building and Construction – [fire dampers](#)

Electrical and Electronic – [emergency voice communication systems](#)

The reviews are ongoing and new versions/drafts are not available at this juncture. Users can refer to the current standards to provide feedback. [Click here](#) to view and purchase the standards.

Closing date for comments: **15 July 2019**.

Members of the public are invited to join as standards partners, resource members or co-opted members subject to the approval of relevant committees and working groups.

To comment or to join in the development of standards, please write to kay_chua@enterprisesg.gov.sg.

A) Notification of draft Singapore Standards for Publication

(I) Biomedical and Health

New

1. Microbiology – Microbiological testing of impregnated or coated products – Wipes and masks (Identical adoption of the upcoming ISO 21322)

This standard gives guidelines for enumeration and/or detection of microorganisms present in cosmetic impregnated or coated products (i.e. wipes and masks) where sampling and microbiological influence on the manufactured product presents particular challenges in terms of microbiological testing.

Potential users of the standard may include manufacturers, suppliers and testing laboratories.

(II) Electrical and Electronic

New

2. Code of practice for temporary electrical installations

Part 1: Construction and building sites (Revision of CP 88 : Part 1 : 2001)

This standard deals principally with temporary electrical installations for building operation and work of engineering construction. It applies to electrical installations set up for the provision of electricity supply during the execution of the following works:

- New building construction;
- Repair, alteration, extension or demolition of buildings;
- Engineering construction;
- Earthworks;
- Other similar works.

This standard does not apply to installations in site offices, meeting rooms, show flats, canteens, dormitories, toilets, etc. located within construction sites, where the general requirements in SS 638 – “Code of practice for electrical installations” apply.

Temporary installations with supplies at voltages higher than 1000 V and those in compressed air environment and potentially explosive atmospheres are outside the scope of this standard.

Part 2: Festive lighting, trade-fairs, mini-fairs and exhibition sites (Revision of CP 88 : Part 2 : 2001)

This standard deals principally with outdoor electrical installation set up for the provision of electricity supply for:

- Trade-fairs or mini-fairs;
- Exhibition;
- Amusement park;
- Decorative lighting in public place; or
- Any outdoor electrical installation set up for festive, religious or commercial event accessible to the public.

This standard specifies the minimum electrical installation requirements to facilitate the safe design, installation and operation of mobile and temporarily installed electrical machines and structures, which incorporate electrical equipment.

Temporary installations with supplies at voltages higher than 1000 V and discharge lighting installation operating at high voltage for the purpose of decoration are outside the scope of this standard.

This standard also does not cover decorative lighting within domestic premises as the requirements are provided in SS 638.

Potential users for the standards on temporary electrical installations include LEWs, installers and constructors.

(NOTE: Instead of the prefix CP, the revised edition of CP 88 will carry the prefix 'SS', i.e. SS XXX : 2019, XXX representing the number that will be assigned when the standard is approved.)

3. Terrestrial photovoltaic (PV) modules – Design qualification and type approval

This standard comprises 3 parts and specifies the requirements for the design qualification and type approval of terrestrial photovoltaic (PV) modules suitable for long-term operation in general open-air climates.

It does not apply to modules used with concentrated sunlight although it may be utilised for low concentrator modules (1 to 3 suns). For low concentration modules, all tests are performed using the current, voltage and power levels expected at the design concentration.

Part 1: Test requirements (Identical adoption of IEC 61215-1:2016)

This standard applies to all terrestrial flat plate module materials such as crystalline silicon module types as well as thin-film modules.

It does not address the particularities of PV modules with integrated electronics; it may however be used as a basis for testing such PV modules.

Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules (Identical adoption of IEC 61215-1-1:2016)

This standard applies to all crystalline silicon terrestrial flat plate modules. It defines PV technology dependent modifications to the testing procedures and requirements according to the proposed SS IEC 61215-1:2016 and SS IEC 61215-2:2016.

Part 2: Test procedures (Identical adoption of IEC 61215-2:2016)

This standard applies to all terrestrial flat plate module materials such as crystalline silicon module types as well as thin-film modules.

4. Salt mist corrosion testing of photovoltaic (PV) modules (Identical adoption of IEC 61701:2011)

This standard describes test sequences useful to determine the resistance of different PV modules to corrosion from salt mist containing Cl- (NaCl, MgCl₂, etc.). It can be applied to both flat plate PV modules and concentrator PV modules and assemblies.

Potential users for the above PV standards include manufacturers, architects, installers and training providers.

Confirmation and revision

5. Code of practice for lighting of work places

Part 1: Indoor [Confirmation of SS 531 : Part 1 : 2006 (2013)] (Modified adoption of ISO 8995-1:2002)

This standard specifies lighting requirements for indoor work places and for people to perform visual tasks efficiently, in comfort and safety throughout the whole work period.

Part 2: Outdoor [Confirmation of SS 531 : Part 2 : 2008 (2014)] (Modified adoption of CIE S 015/E : 2005)

This standard specifies lighting requirements for outdoor work places, which meet the needs for visual comfort and performance. All usual visual tasks are considered.

Part 3 : Lighting requirements for safety and security of outdoor work places [Revision of SS 531 : Part 3 : 2008 (2014)] (Identical adoption of ISO/CIE 8995-3 : 2018)

This standard specifies the lighting requirements which will contribute to the visual needs for safety and security within outdoor work places.

Users of the standard may include professional engineers, consultants, architects, contractors, facilities managers, building owners and relevant government agencies,

(III) Environment and Resources

6. Specification for water heaters for household use – Method for measuring the energy performance

The standard specifies methods for measuring the energy performance of water heaters for hot water heating for household use. It applies to the following types of water heaters:

Type of water heater	Rated input power
Electric storage	≤12 kW
Electric instantaneous	≤12 kW
Electric heat pump	≤ 6 kW
Gas instantaneous	≤ 59 kW
Gas storage	≤ 22 kW

Potential users of the standard are water heater suppliers, testing bodies, M&E consultants, green mark professionals and relevant government agencies.

(IV) **Quality and Safety**

New

7. **Refuse collection vehicles – General requirements and specifications for rear end loaders and tanker trucks**

This standard aims to provide requirements for rear end loaders (RELs) and tanker trucks in terms of hygiene, safety, odour and noise including the maintainability of other associated equipment. It is also intended to assist licensed public waste collectors and general waste collectors that are involved in the collection of general waste using RELs which are unable to comply with SS EN 1501 due to site constraint(s) or design.

Potential users of the standard include the National Environment Agency, refuse collection vehicles distributors and general waste collectors.

(V) **Food**

Mature standards

8. **Specification for full-cream sweetened condensed milk (SS 10 : 2012)**

This standard covers the requirements and methods of test for full-cream sweetened condensed milk.

9. **Specification for evaporated milk (unsweetened full cream condensed milk) (SS 114 : 2012)**

This standard covers the requirements and methods of test for evaporated milk.

10. **Specification for reconstituted or recombined milk (SS 148 : 2012)**

This standard covers the requirements and methods of test for reconstituted or recombined milk that has been subjected to heat treatment process.

11. **Specification for skimmed and whole milk powder (SS 260 : 2012)**

This standard covers the requirements and methods of test for skimmed and whole milk powder for human consumption without further heat processing.

12. **Specification for filled milk sweetener (SS 330 : 2012)**

This standard covers the requirements and methods of test for filled milk sweetener.

It is proposed to classify the above milk standards as mature standards as there are no foreseeable changes to them. Hence, they will not be reviewed until a request is put forth to do so.

Users of the standards may include milk manufacturers as well as retail, wholesale and distribution establishments.

Copies of the drafts and standards are available at:

Viewing from Singapore Standards eShop

Login to Singapore Standards eShop at: www.singaporestandardseshop.sg

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Viewing Singapore Standards and ISO Standards from National Libraries

All public libraries' multimedia stations and on personal internet/mobile devices (e.g. mobile phones, notebooks, tablets) at all public libraries via NLB eDatabases "Singapore and ISO Standards Collection" (refer to www.nlb.gov.sg/VisitUs.aspx for address and viewing hours)

Purchase of Singapore Standards

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NOTE – The viewing period of the drafts and standards will expire on the closing of the 2-month public comment period and will no longer be available after this date.

B) Notification of New Work Item Proposals

B.1 Proposed New Work Items

(I) Robots and Unmanned Aerial Systems

1. Technical Reference (TR) – Guidelines on addressing and mitigating risk associated with robot deployments using a risk assessment framework

This TR will guide system integrators and robot users to perform risk assessment on robots safety, installations and use. This will ensure that there are careful considerations of the safety aspects by both parties at the planning stage to maximise production benefits of robotic systems and ensure best practices.

Potential users of the TR include system integrators, regulators, end-users, research institutes and testing, inspection and certification players (who can provide third party risk assessments to companies).

2. Technical Reference – Guidelines on airworthiness of unmanned aerial systems (UAS)

This TR will provide guidelines on airworthiness of UAS not exceeding 25 kg for commercial usage in Singapore's urban environment.

It will also include guidelines on minimum airworthiness verification test.

Potential users of the TR include UAS end-users, government agencies, testing, inspection and certification body, professional institutions, companies, institutes of higher learning and training providers.

3. Technical Reference – Inspection of building facade using unmanned aerial systems (UAS)

This TR will provide guidelines for the inspection of building façades using UAS. It covers the stages starting from pre-flight preparation, during flight execution and up to post-flight data handling and reporting, focusing on the following areas:

- Drone permit to fly;
- Public and assets safety;
- Insurance and liability;
- Data privacy;
- Inspection and final reports.

Potential users of the TR include UAS service providers and end-users, government agencies, testing, inspection and certification bodies, professional institutions, companies, institutes of higher learning and training providers.

(II) **Electrical and Electronic**

4. **Technical Reference – Photovoltaic (PV) modules – Test methods for the detection of potential-induced degradation – Part 1: Crystalline silicon** (Identical adoption of IEC TS 62804-1:2015)

This TR defines procedures to test and evaluate the durability of crystalline silicon photovoltaic (PV) modules to the effects of short-term high-voltage stress including potential-induced degradation (PID). Two test methods are defined that do not inherently produce equivalent results. They are given as screening tests – neither test includes all the factors existing in the natural environment that can affect the PID rate. The methods describe how to achieve a constant stress level.

Potential users include manufacturers, architects, installers and training providers.

B.2 **Review of Singapore Standards**

(I) **Building and Construction**

1. **Specification of fire dampers** (SS 333 : 2012)

This standard specifies requirements for the materials, design, manufacture, performance, testing, marking, inspection and maintenance of fire dampers which may be of rectangular or circular face, of single or multi-blade construction, and having hinged, pivoted or curtain type action.

The standard is reviewed with the intention to update it and to include fire and smoke dampers.

Users of the standard include professional engineers, architects, fire safety managers, facility managers, building owners, contractors, manufacturers, suppliers and testing bodies and relevant government agencies.

(II) **Electrical and Electronic**

2. **Code of practice for emergency voice communication systems in buildings** (SS 546 : 2009)

This standard applies to the planning, design, installation, maintenance and testing of emergency voice communication systems in buildings and sets out the requirements for the basic system.

Users of the standard include fire authority, architects, contractors and building owners.

Submit Comments

Frequently asked questions about public comment on Singapore Standards:

1. What is the public comment on Singapore Standards?

Singapore Standards are established based on an open system which is also in accordance with the requirements of the World Trade Organisation. These documents are issued as part of a consultation process before any standards are introduced or reviewed. The public comment period is an important stage in the development of Singapore Standards. This mechanism helps industry, companies and other stakeholders to be aware of forthcoming changes to Singapore Standards and provides 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 on Singapore Standards benefit me?

This mechanism:

- 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;
- 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 all public libraries. 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 the development of a new standard?

You can propose the development of a new standard [here](#).