

Submit Comments

## ENTERPRISE SINGAPORE CALLS FOR PUBLIC COMMENTS – 13 JULY 2020

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:

Building and Construction – [water services](#)

Chemical – [combustible dust](#), [bulk liquid oxygen](#), [paints and varnishes](#)

Electrical and Electronic – [photovoltaic \(PV\) module safety qualification](#)

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

Closing date for comments: **14 September 2020**.

Please submit comments to: [kay\\_chua@enterprisesg.gov.sg](mailto:kay_chua@enterprisesg.gov.sg).

### B) Notification of 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:

Manufacturing – [qualification of metal additive manufacturing printed parts](#)

Quality and Safety – [domestic gas cooker system with elbow joints](#)

The NWIs are work-in-progress and the drafts are not available at this juncture.

Closing date for comments: **14 August 2020**.

Please submit comments to: [kay\\_chua@enterprisesg.gov.sg](mailto: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Published Singapore Standards are reviewed to determine if they should be updated, confirmed or withdrawn (if they no longer serve the industry's needs) or classified as mature standards (no foreseeable changes; to be reviewed only upon request).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 following standards to be reviewed:

Electrical and Electronic – [13 A fused connection units](#), [temporary electrical installations for shipbuilding and ship-repairing yards](#)

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

Closing date for comments: **14 August 2020**.

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

To comment or to join in the development of these standards, please write to [kay\\_chua@enterprisesg.gov.sg](mailto:kay_chua@enterprisesg.gov.sg).

## **A) Notification of draft Singapore Standards for Publication**

### **(I) Building and Construction**

#### **Amendment**

#### **1. Amendment No. 3 to Code of practice for water services (SS 636 : 2018+A2:2020)**

This amendment is intended to replace the requirement for mechanical self-closing delayed action taps (SCDATs), currently used in public toilets, with the requirement for sensor SCDATs. This arose from the current COVID-19 situation which made it necessary to maintain contactless (with the tap) hand washing.

Those who may be interested in this Amendment include professional engineers, registered architects, licensed water services plumbers in the design, installation, fixing, testing and maintenance of water services in all residential, commercial and industrial buildings/premises, and relevant government agencies.

[\(Click here\)](#) to download the amendment.)

### **(II) Chemical**

#### **New**

#### **2. Code of practice on handling and storage of combustible dust**

This standard covers the handling and storage of combustible dust to prevent and mitigate fires and dust explosions in facilities handling such materials.

It helps users in the assessment of dust fire and explosion hazards and mitigation of those hazards through facility design, equipment/process control measures, elimination of ignition sources and minimising damage.

The standard is applicable to industries (e.g. food processing, woodworking factories, pharmaceutical, petrochemical, specialty chemicals, additive manufacturing, and logistics), research institutions and institutes of higher learning (IHL) that manufacture, process, blend, convey, repackage, generate or handle combustible dusts or combustible particulate solids. It is not applicable for warehousing of sealed containers of such materials when not associated with an operation that handles or generates combustible dust.

## **Revision**

### **3. Code of practice for bulk liquid oxygen storage installations on user premises (Revision of SS 597: 2014)**

This standard covers the general principles recommended for bulk liquid oxygen storage installations on user premises where the tank capacity is more than 450 L and less than 100,000 L.

Users of this standard include manufacturers and suppliers, industry associations, gas professionals, academia, testing laboratories and relevant government agencies.

### **4. Methods of test for paints, varnishes and related materials (SS 5 series)**

All 50 parts of SS 5 have been reviewed, the summary review outcome is consolidated in SS 5 Part 0. In addition, one new part has been proposed for inclusion in the SS 5 series.

## **Revision**

### **Part 0 : General Introduction**

This standard gives an overview of the methods of test issued as individual parts to the Singapore Standard SS 5 series. It is intended primarily for use in the testing of materials for compliance with the related Singapore Standards and other performance paint specifications. This standard is also appropriate for general laboratory use and investigational purposes.

## **New**

### **Part A5 : Lighting and procedure for visual assessments of coatings (Identical adoption of ISO 13076 : 2019)**

This standard specifies the lighting and the procedure for the visual assessment of degraded areas, spots or other defects on or in coatings. This standard is not applicable to the visual comparison of colour, which can be assessed using ISO 3668, "Paints and varnishes – Visual comparison of colour of paints".

Users of the SS 5 series standards include testing laboratories, paints suppliers and manufacturers, associations of contractors, consultants and architects, and relevant government agencies.

## **(III) Electrical and Electronic**

### **5. Photovoltaic (PV) module safety qualification**

#### **Part 1: Requirements for construction (Revision of SS IEC 61730-1 : 2015) (Identical adoption of IEC 61730-1:2016)**

This standard specifies and describes the following:

- Fundamental construction requirements for photovoltaic (PV) modules to provide safe electrical and mechanical operation; and
- Requirements of PV modules suitable for long-term operation in open-air climates.

This standard does not address specific requirements for products that combine a PV module with power conversion equipment, monitoring or control electronics.

#### **Part 2: Requirements for testing (Revision of SS IEC 61730-2 : 2015) (Identical adoption of IEC 61730-2:2016)**

This standard lists the tests a PV module is required to fulfil for safety qualification in conjunction with SS IEC 61730-1.

This standard does not specify all test sequences for possible safety aspects such as potential danger of electric shock posed by a broken PV module in a high voltage system. That should be addressed by the system design, location, restrictions on access and maintenance procedures.

Potential users of the PV standards may include manufacturers and suppliers, professional engineers, consultants, testing laboratories, academic institutions, contractors and government agencies.

Copies of the drafts and standards are available at:

Viewing from Singapore Standards eShop  
Login to Singapore Standards eShop at: [www.singaporestandardseshop.sg](http://www.singaporestandardseshop.sg)  
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Operating Hours:  
Mon to Fri: 9.30 am to 6.00 pm  
Closed on Saturdays, Sundays and Public Holidays

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

## **B) Notification of Work Item Proposals**

### **B.1 Proposed New Work Items**

#### **(I) Manufacturing**

##### **1. Qualification of metal additive manufacturing printed parts**

This standard provides users with a framework for qualification and certification of additive manufacturing (AM) printed parts and processes during AM metal part production. To produce consistent AM parts, there is a need to consider the aspects of raw material, machine, operator and parts. This standard is applicable to the powder bed fusion (PBF), especially powder bed fusion of metal using laser beam (PBF-LB/M).

This standard specifies the part classification and qualification requirements for AM processes and parts. The classification and qualification requirements are divided into part classification, pre-process qualification for AM machine, in-process qualification for AM parts at specimen level and post-process qualification for AM parts.

Potential users include AM design engineers, manufacturing engineers, maintenance engineers, industry associations, research institutions and government agencies.

#### **(II) Quality and Safety**

##### **2. Domestic liquefied petroleum gas (LPG) cooker system with elbow joints**

The proposed standard covers requirements on the performance and dimensions for elbow joints for use with domestic gas cooker using LPG.

It also covers the types of elbow joints/inlets of the gas cooker/nozzles, details of the fitting/adaptor and its use, installation practices and safety aspects during installation.

Potential users of the standard include testing and certification bodies, LPG and gas cooker suppliers, service providers, manufacturers, and persons designing, installing, testing, operating and maintaining or servicing domestic gas cooker systems, as well as relevant government agencies and industry associations.

## **B.2 Review of Singapore Standard**

### **(I) Electrical and Electronic**

#### **1. Specification for 13 A fused connection units switched and unswitched (SS 403 : 2013)**

This standard specifies requirements for 13 A fused fixed connection units for household, commercial and light industrial purposes, with focus on safety in normal use. The connection units are suitable for the connection of appliances, in a.c. circuits only, operating at voltages not exceeding 250 V r.m.s. at 50 Hz.

The standard is reviewed with the intention to adopt the latest BS 1363-4:2016+AMD1:2018 with local requirements for use in Singapore. SS 403 will be re-designated as SS 145 : Part 4 for alignment with SS 145, Parts 1 to 3 which are all modified adoption of the BS 1363 series of standards.

Users of the standard may include testing, inspection and certification bodies, manufacturers and suppliers, professional engineers, contractors and government agencies.

#### **2. Code of practice for temporary electrical installations – Part 3: Shipbuilding and ship-repairing yards (CP 88 : Part 3 : 2004)**

This standard specifies requirements on the provision of temporary electricity supply from the shore fixed installations or from mobile generating sets to vessel(s) under construction and during repair and conversion works. The works may be carried out in shipbuilding and repairing yards, vessels moored alongside the yards, and confined spaces or confined locations or other similar situations on board vessels.

The standard is reviewed with the intention to update the standard. The standard will be re-designated as SS 650 : Part 3 for alignment with SS 650, Part 1 and Part 2.

Users of the standard may include testing, inspection and certification bodies, shipyard companies, professional engineers, consultants, contractors and government agencies.

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. 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](#).