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## ENTERPRISE SINGAPORE CALLS FOR PUBLIC COMMENTS – 13 JANUARY 2023

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 Standards:

Building and Construction – [gas installation](#)

Electrical and Electronic – [luminaires](#), [LED modules](#)

Information Technology – [data centre IT equipment](#)

Quality and Safety – [liquefied petroleum gas and non-refillable gas canisters](#)

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

Closing date for comments: **14 March 2023**

Please submit comments to: [standards@enterprisesg.gov.sg](mailto:standards@enterprisesg.gov.sg).

### B) Notification of New Work Items

#### B.1 Proposals for New Work Items

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

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:

Chemical – [operation of drones](#)

Electrical and Electronic – [marine energy](#)

Transportation – [rulebooks for railway](#)

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

Closing date for comments: **14 February 2023**

## **B.2 Proposal for the Review of Singapore Standards**

Published Singapore Standards and Technical References are reviewed to determine if they should be updated, confirmed or withdrawn (if they no longer serve the industry's needs) or classified as mature standards (no foreseeable changes; to be reviewed only upon request).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 – [residual current operated circuit-breakers, maintenance of electrical equipment of electrical installations](#)

Quality and Safety – [protective helmets for motor cyclists](#)

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

Closing date for comments: **14 February 2023**

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 [standards@enterprisesg.gov.sg](mailto:standards@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 gas installation (SS 608:2015+A2:2020)**

This amendment introduces a new material for gas installation, corrugated stainless steel tubing (CSST), for consumer internal pipes in residential premises only. The material conforms to BS EN 15266:2007, "Stainless steel pliable corrugated tubing kits in buildings for gas with an operating pressure up to 0.5 bar". In Singapore, domestic gas installation operating pressure is not more than 20 mbar.

As CSST uses only one-third of the time required for steel pipe installation, it increases installation productivity, potentially reducing time needed by at least 60%.

Users of the standard include building developers, engineers, registered architects, consultants, service providers, licensed gas service workers and relevant government agencies.

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

#### **(II) Electrical and Electronic**

##### **Revision**

#### **2. Luminaires – Part 2-22: Particular requirements – Luminaires for emergency lighting (SS IEC 60598-2-22:2016) (Identical adoption of IEC 60598-2-22:2021)**

This standard specifies the requirements for emergency luminaires for use with electrical lamps on emergency power supplies not exceeding 1 000 V.

The main changes in this revision are as follows:

- update of requirements for rest mode and inhibiting mode;
- clarification of high temperature operation tests;
- introduction of new requirements for lithium batteries;
- introduction of new requirements for electric double layer capacitors (EDLCs);
- clarification of resistance to heat, fire and tracking;

- clarification of test facilities for self-contained luminaires;
- clarification of the test method for contrast measurements of exit signs.

### **Confirmation with Amendment**

#### **3. Amendment No. 1 to LED modules for general lighting – Performance requirements (SS IEC 62717:2015) (Identical adoption of IEC 62717:2014/AMD1:2015+AMD2:2019)**

This standard will be confirmed with amendments to update the following:

- Split of failure mechanisms into abrupt failures and luminous flux depreciation;
- New terms and definitions; and
- New requirements for lumen maintenance.

Users of the electrical and electronic standards include building owners, property developers, design consultants, contractors, testing, inspection and certification (TIC) bodies, products suppliers and manufacturers, and relevant government agencies.

### **(III) Information Technology**

#### **New**

#### **4. Deployment and operation of data centre IT equipment under tropical climate**

This standard sets out provisions to help local data centre operators transition from traditional data centre operations to deploying and operating data centre information technology equipment in settings that are optimised for energy efficiency in a tropical climate. While there are available international standards for data centre operators to manage their energy use, this standard will be developed specifically for data centres located in tropical climates.

Apart from devising a cooling strategy optimised for the typical temperature and relative humidity ranges found in the tropics, this standard will also inform data centre operators on ways to measure and calculate the total cost of operations under these conditions, to justify their use and get buy-in from data centre customers on the benefits of tropical data centres.

Potential users of the standard include operators and hyperscale users of data centres.

### **(IV) Quality and Safety**

#### **Revision**

#### **5. Specification for liquefied petroleum gas and non-refillable gas canisters for portable gas appliances (Revision of SS 400:1997) (Modified adoption of JIS S 2148:2013)**

This standard specifies requirements for canisters filled up with liquefied petroleum gas used as a component of portable gas appliances. Requirements for portable gas appliances are specified in SS 401, “Specification for portable gas cookers – General specifications and test methods” (currently under review).

Users of the standard include manufacturers and suppliers of portable gas appliances and canisters, TIC bodies and relevant 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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#### Viewing Singapore Standards and ISO Standards from Public 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](http://www.nlb.gov.sg/VisitUs.aspx) for address and viewing hours)

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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) Proposal for New Work Items**

#### **(I) Chemical**

##### **1. Operation of drones for oil, chemicals and processing facilities and related pipeline corridors**

This standard sets out provisions and contains best practices and industry knowledge for the safe operation of drones in a chemical and hazardous environment. It serves to establish a service baseline which drone operators would deliver to meet the needs of chemical companies.

It complements the existing framework on unmanned aircraft usage.

Potential users of the standard include petrochemical plants, refineries, oil storage facilities, facilities processing or storing flammable and combustible liquids, drone operators or contractors, associations/institutions of fire engineers, engineers, safety officers and relevant government agencies.

#### **(II) Electrical and Electronic**

##### **2. Marine energy – Wave, tidal and other water current converters**

**Part 1: Vocabulary** (Identical adoption of IEC TS 62600-1:2020)

**Part 100: Electricity producing wave energy converters – Power performance assessment** (Identical adoption of IEC TS 62600-100:2012)

**Part 101: Wave energy resource assessment and characterization** (Identical adoption of IEC TS 62600-101:2015)

**Part 200: Electricity producing tidal energy converters – Power performance assessment** (Identical adoption of IEC 62600-200:2013)

This series of standards provide a uniform methodology that will ensure consistency and accuracy in the estimation, measurement and analysis of the wave energy resource at sites that could be suitable for the installation of wave energy converters, together with defining a standardised methodology with which this resource can be described.

Potential users of the series include marine companies, TIC bodies, consultants, research institutes, institutes of higher learning and relevant government agencies.

### **(III) Transportation**

#### **3. Guide for development and review of rulebooks for railway**

This standard provides guidance for railway operators in their operations management in the following areas:

- Development, issuance, revision and review of rulebook;
- Dissemination of key changes for new/revised rulebook;
- Rulebook custodian and approving authority;
- Rulebook review committee.

Potential users of the standard include rail transport operators, contractors, suppliers/manufacturers, institutes of higher learning and relevant government agencies.

### **B.2) Proposal for the Review of Singapore Standards**

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

##### **1. Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) – General rules (SS 480:2016) (Modified adoption of IEC 61009-1:2010)**

This standard applies to residual current operated circuit-breakers with integral overcurrent protection functionally independent of, or functionally dependent on, line voltage for household and similar uses (referred to as RCBOs), for rated voltages not exceeding 440 V a.c. with rated frequencies of 50 Hz, 60 Hz or 50/60 Hz and rated currents not exceeding 125 A and rated short-circuit capacities not exceeding 25 000 A for operation at 50 Hz or 60 Hz.

Users of this standard include building and asset owners, contractors, TIC bodies, electrical product suppliers/manufacturers, institutes of higher learning and relevant government agencies.

##### **2. Code of practice for maintenance of electrical equipment of electrical installations (SS 538:2008)**

This standard covers the maintenance of electrical equipment for voltages up to and including 22 kV to enhance safe and proper operation of electrical installations with reduced risk of breakdown and the consequent interruption of supply.

Users of the standard include licensed electrical workers, engineers, consultants, training providers, institutes of higher learning and relevant government agencies.

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

##### **3. Specification for protective helmets for motor cyclists (SS 9:2014)**

This standard specifies the requirements and provides corresponding methods of test for helmets to be worn by riders and passengers of motor cycles and motor cycles with side cars excluding those used by participants in competitive events.

This standard does not specify requirements for accessories such as goggles, detachable peaks and detachable face covers.

The standard is reviewed with the intention to update and align with international standards.

Users of the standard include suppliers/manufacturers, buyers, end-users, TIC bodies, industry associations and relevant 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. Why are comments only accepted through the new public comment form provided by Enterprise Singapore?

We have developed a new public comment form which will enable users to submit their comments in a standardised and structured manner. The Working Group (WG) that will be reviewing the comments will have a better understanding of what the commenter has proposed, the rationale for the changes and where these changes will be made in the standard. This will assist the WG in addressing the comments more effectively.

### 5. What happens after I have submitted my comments?

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

### 6. Can I view drafts after the public comment period?

Drafts will not be available after the public comment period.

### 7. How do I request for the development of a new standard?

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