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ENTERPRISE SINGAPORE CALLS FOR PUBLIC COMMENTS – 7 JULY 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:

Safety and Quality – [mobile cranes](#)

Services – [hotel security](#)

Closing date for comments: **8 September 2023**

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

Please submit comments to: standards@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 pre-standards like Technical References and Workshop Agreements.

Members of the public are invited to comment on the scope of the new standard and content that can be included into the following proposal:

Electrical and Electronic – [electrical energy storage \(EES\) systems](#)

The NWI is a work-in-progress, and the draft is not available at this juncture.

B.2 Notification of the Proposal for the Review of 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Singapore Standards and Technical References are reviewed to determine if they should be updated, confirmed or withdrawn (if they no longer serve the industry's needs) or classified as mature standards (no foreseeable changes; to be reviewed only upon request).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:

Building and Construction – [fire shutters](#)

Electrical and Electronic – [EES systems](#)

Transportation – [electric vehicles charging system](#)

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: **8 August 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.

A) Notification of Draft Singapore Standards for Publication

(I) Safety and Quality

Revision

1. Code of practice for the safe use of mobile cranes (Revision of SS 536:2008)

This standard sets out provisions for the construction, application, operation, maintenance and testing of mobile cranes for their safe use. It covers land-based mobile cranes including crawler-mounted cranes, wheel-mounted cranes and truck-mounted cranes. It covers mobile cranes with hydraulic boom types and non-hydraulic boom types.

Users of the standard include crane operators, crane manufacturers/suppliers, workplace safety and health officers, safety consultants, project/site managers, engineers, contractors, testing, inspection and certification (TIC) bodies, institutes of higher learning, and relevant government agencies.

(II) Services

Revision

2. Code of practice for hotel security (Revision of SS 545:2009)

This standard specifies key requirements and recommendations for hotel security to protect the physical and digital assets within the hotel premises, including the following key elements:

- Security management plan;
- Security equipment;
- Record of security incidents;
- Cyber security;
- Manpower;
- Training.
- Areas for assessment;

Users of the standard include hoteliers and their employees dealing with security and facilities management. This standard is applicable to hotels of all sizes.

Copies of the drafts and standards are available at:

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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

Electrical and Electronic

Technical Reference – Electrical energy storage (EES) systems – Part 3-2: Planning and performance assessment of electrical energy storage systems – Additional requirements for power intensive and renewable energy sources integration related applications (Modified adoption of IEC TS 62933-3-2:2023)

This standard provides the requirements for power intensive and renewable energy sources integration-related applications of EES systems, including grid integration, performance indicators, sizing and planning, operation and control, monitoring, and maintenance.

It includes the following applications of EES systems:

- Frequency regulation/support;
- Grid voltage support;
- Voltage sag mitigation;
- Renewable energy sources integration related applications;
- Power oscillation damping.

Potential users of the standard include testing & inspection companies, EES system manufacturers/suppliers, renewable energy contractors and service providers, as well as relevant government agencies.

B.2) Proposal for the Review of Standards

(I) Building and Construction

1. Specification for fire shutters (SS 489:2015+C1:2017)

This standard specifies the requirements and testing methods to assess the fire-resistance of fire shutters required to protect openings in walls and resist passage of fire.

It will be reviewed with the intention of revising it to include but is not limited to the following:

- Review of the fire test method according to the latest amendments of EN 1363-1, “Fire resistance tests – Part 1: General requirements and EN 1634-1, “Fire resistance tests for non-loadbearing elements – Part 1: Walls”;
- Review of closing speed of various type of fire shutters;
- Addition of fire safety signages for fire shutters;
- Details on test mounting; and
- Details on maintenance of fire shutters.

Users of the standard include architects, suppliers/manufacturers, TIC bodies and relevant government agencies.

(II) **Electrical and Electronic**

2. **Technical Reference – Electrical energy storage (EES) systems – Planning and performance assessment of electrical energy storage systems – General specification (TR 77-1:2020)**

This standard is applicable to EES systems designed for grid-connected indoor or outdoor installation and operation. It considers:

- exchange of system information and control capabilities required;
- necessary functions and capabilities of EES systems;
- requirements for monitoring and acquisition of EES system operating parameters;
- test items and performance assessment methods for EES systems.

TR 77-1 will be reviewed with the intention of confirming it.

Users of the standard include testing & inspection companies, EES system manufacturers/suppliers, renewable energy contractors and service providers, and relevant government agencies.

(III) **Transportation**

3. **Technical Reference – Electric vehicles charging system**

Part 1: Electrical safety and general requirements (TR 25-1:2022)

This standard specifies general requirements for safety applicable to on-board and off-board equipment for charging electric vehicles, and battery swapping equipment and kiosk.

Part 2: Low power charging (TR 25-2:2022)

This standard sets out requirements for electric-powered two wheelers and electrical vehicles (EV) charging systems that align with international practices accepted currently, while taking local conditions into consideration. It also states the safety requirements to protect persons and property against electrical hazards.

Part 3: High power charging (TR 25-3:2022)

This standard specifies requirements for high power charging, with a power rating equal to or above 150kW using accessories and cable assemblies with the same configuration as specified in IEC TS 62196-3-1, “Plugs, socket-outlets, vehicle connectors and vehicle inlets – Conductive charging of electric vehicles – Part 3-1: Vehicle connector, vehicle inlet and cable assembly for DC charging intended to be used with a thermal management system”.

Part 4: Battery swapping (TR 25-4:2022)

This standard sets out requirements for battery swap systems, in which protection relies on double or reinforced insulation, intended to be used for electric motorcycles.

TR 25 Parts 1 to 4 will be reviewed with the intention to include new emerging technologies such as wireless charging, and also to elevate it to a Singapore Standard.

Users of the standards include EV manufacturers/suppliers, contractors, institutes of higher learning 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](#).