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ENTERPRISE SINGAPORE CALLS FOR PUBLIC COMMENTS – 6 December 2024

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 Standard for Publication

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

Electrical and Electronic – [insulated cables](#)

Environment and Resources – [waste collection and transport](#), [refuse collection vehicles](#)

Food – [organic primary produce](#), [food waste management](#) (2 standards)

Information Technology – [tiered cybersecurity](#)

Safety and Quality – [safety of machinery](#)

Closing date for comments: **7 February 2025**

For more information on viewing the document, [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 standards and contents that can be included into the following proposals:

Electrical and Electronic – [battery energy storage](#)

Safety and Quality – [gymnasiums and fitness studios](#)

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

Closing date for comments: **7 January 2025**

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Singapore Standards and Technical References are reviewed to determine if they should be updated, confirmed or withdrawn (if they no longer serve the industry's needs) or classified as mature standards (no foreseeable changes; to be reviewed only upon request).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

Safety and Quality – [active fall protection system](#)

Transportation – [electric vehicles](#)

The reviews are ongoing, and the new version/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: **7 January 2025**

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 Standard for Publication

(I) Electrical and Electronic

Revision

1. Specification for polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V

Part 1: General requirements (Revision of SS 358-1:2011(2017)) (Identical adoption of IEC 60227-1:2024)

This standard applies to rigid and flexible cables with insulation, and sheath if any, based on polyvinyl chloride, of rated voltages up to and including 450/750 V used in power installations of nominal voltage not exceeding 450/750 V AC.

Part 5: Flexible cables (cords) (Revision of SS 358-5:2019) (Identical adoption of IEC 60227-5:2024)

This standard highlights particular specifications for polyvinyl chloride insulated flexible cables (cords), of rated voltages up to and including 300/500 V.

Users of the above standards include testing, inspection and certification (TIC) bodies, manufacturers and suppliers of cables, building contractors and service providers, engineers and relevant government agencies.

(II) Environment and Resources

New

2. Waste collection and transportation management – Vocabulary (Identical adoption of ISO 24161:2022)

This standard defines terms that are commonly used in waste collection and transportation management. It aims to align with the terminology used internationally.

Users of the standard include public waste collectors, general waste collectors and relevant government agencies.

Revision

3. Refuse collection vehicles – General requirements and safety requirements

Part 1: Rear loaded refuse collection vehicles (Revision of SS EN 1501-1:2016) (Identical adoption of EN 1501-1:2021)

Part 2: Side loaded refuse collection vehicles (Revision of SS EN 1501-2:2016) (Identical adoption of EN 1501-2:2021)

Part 3: Front loaded refuse collection vehicles (Revision of SS EN 1501-3:2016) (Identical adoption of EN 1501-3:2021)

Part 1 to 3 apply to the design and construction of the above-mentioned refuse collection vehicles (RCVs) to ensure that it is fit for its intended function and can be operated, cleaned (including unblocking), adjusted and maintained during its entire lifetime. It is not applicable to the end of life of the RCVs.

They also describe and define the safety requirements of the RCVs excluding the interface tailgate/discharge door with the lifting device(s), the lifting device(s) and excluding loader cranes, which can be mounted on the RCVs.

Part 4: Noise test code for refuse collection vehicles (Revision of SS EN 1501-4:2016) (Identical adoption of EN 1501-4:2023)

Part 4 provides all the information required to perform efficiently, and in standardised conditions, the determination, declaration and verification of noise emission values of RCVs. The standard ensures that the noise emission values are consistently determined within the accuracy limits established by the basic standard.

Part 5: Lifting devices for refuse collection vehicles (Revision of SS EN 1501-5:2016) (Identical adoption of EN 1501-5:2021)

Part 5 is applicable to the design and construction of the refuse container lifting devices and the mounting of other lifting devices to ensure that they are fit for their function and can be operated, adjusted and maintained during their entire lifetime. It is not applicable to the end of life of the lifting devices. This standard describes and gives the safety requirements of the lifting devices for emptying refuse containers and their interfaces with the corresponding parts of the RCVs.

Users of the above standards on RCVs include manufacturers, suppliers, general waste collectors, public waste collectors and relevant government agencies.

(III) Food

Confirmation

4. Specification for organic primary produce (SS 632:2017+C1:2018+A1:2019)

This standard specifies the requirements for primary produce such as grains, mushrooms, fresh vegetables, fresh herbs and fresh fruits, and covers processes such as production, post-harvest practices, import, packing and repacking, storage, transport and labelling of organic produce. It does not cover livestock, fish and processed food.

It incorporates organic agriculture principles (i.e. health, ecology, fairness, and care) for traditional organic farming, peri-urban and urban organic farming, breaking bulk and repacking of organic produce.

This standard covers only soil-based cultivation, substrate-based cultivation, and aquaponics.

Users of the standard include farmers of organic primary produce, distributors, TIC bodies, training providers, industry associations, research and professional institutions, institutes of higher learning and relevant government agencies.

Mature

5. Code of practice for food waste management for food processing/manufacturing establishments (SS 633:2017)

This standard specifies best practices for food processing/manufacturing establishments in developing their food waste management plans. It sets out recommendations and guidelines for proper food waste management at various stages in the food value chain, from receiving raw materials, to processing, storage, packaging, transportation, distribution, and returned foods. It does not include incoming raw material and recalled products.

It is proposed to classify SS 633 as a mature standard as there are no foreseeable changes to the standard. Hence, it will not be reviewed until a request is put forth to do so.

Users of the standard include food processing and/or manufacturing establishments, food waste collectors, TIC bodies, training providers, industry associations, research and professional institutions, institutes of higher learning and relevant government agencies.

6. Code of practice for food waste management for food retail, wholesale and distribution establishments (SS 640:2018)

This standard gives the recommended best practices for food retail, wholesale and distribution establishments in developing their food waste management plans. It sets out recommendations and guidelines for proper food waste management at various stages in the food value chain, from the receiving of materials to preparation, storage, packing, transportation/distribution, sales and disposal of food loss and waste (FLW).

It is proposed to classify SS 640 as a mature standard as there are no foreseeable changes to the standard. Hence, it will not be reviewed until a request is put forth to do so.

Users of the standard include food retail, wholesale and distribution establishments, food waste collectors, TIC bodies, training providers, industry associations, research and professional institutions, institutes of higher learning and relevant government agencies.

(IV) Information Technology

Revision

7. Tiered cyber security standards for organisations (Review of TR 106:2022)

This standard provides a framework for organisations to manage information security based on their respective business risk levels. It aims to improve the cybersecurity posture of businesses and their supply chains, thereby enhancing security assurance for their clients.

This Singapore Standard will replace TR 106, "Tiered cybersecurity standards for enterprises".

Users of the standard include companies concerned with cyber security, certification bodies and relevant government agencies.

(V) **Safety and Quality**

New

8. **Safety of machinery – Guards – General requirements for the design and construction of fixed and movable guards** (Identical adoption of ISO 14120:2015, confirmed by ISO in 2021)

This standard specifies the general requirements for the design, construction and selection of guards to protect a person from mechanical hazards and indicates other hazards that can influence the design and construction of guards apart from mechanical hazards.

Users of the standard include TIC bodies, manufacturers, suppliers, industry associations, professional bodies and relevant government agencies.

Copies of the draft are available at:

Viewing from Singapore Standards eShop

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Viewing Singapore Standards from Public Libraries

Singapore Standards are viewable multimedia stations at all Public Libraries via NLB databases "Singapore Standards Collection" at <https://reference.nlb.gov.sg/guides/sci-tech/tech/standards-and-references/> Please refer to <https://www.nlb.gov.sg/main/visit-us> for address and viewing hours.

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

B) Notification of the Work Item Proposals

B.1 Proposal for New Work Items

(I) Electrical and Electronic

1. **Test method for evaluating thermal runaway fire propagation in battery energy storage systems** (Adoption of UL 9540A:2019)

This standard highlights the testing methodology to assess the fire characteristics of an energy storage system (ESS) that undergoes thermal runaway. Data from the testing is then used to determine the fire and explosion protection requirements applicable to that ESS.

Users of the standard include TIC bodies, ESS manufacturers/suppliers, renewable energy contractors and service providers, as well as relevant government agencies.

(II) Safety and Quality

2. Code of practice for gymnasiums and fitness studios

The standard aims to address the safety of operations for gymnasium and fitness studios, providing best practices in areas such as facility and equipment management. It will also draw references from relevant framework to promote safety and professionalism of gymnasiums and fitness instructors, defining clear roles and responsibilities of operators, instructors and users.

Users of the standard include gymnasium and fitness studio operators, industry associations, professional institutions, institutes of higher learning and relevant government agencies.

B.2 Proposal for the Review of Singapore Standards

(I) Safety and Quality

1. Specification for design of active fall-protection systems (SS 607:2015)

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.

It is reviewed with the intention to update the safety protocols and technologies, and to align with international best practices.

Users of the standard include consultants, suppliers, designers, work-at-height users, training providers, industry associations, professional engineers, TIC bodies and relevant government agencies.

(II) Transportation

2. Amendment No. 1 to Electric vehicles charging system – Part 1: Electrical safety and general requirements (TR 25-1:2022)

This amendment is to:

- a) update the definition of “restricted access” to “EVCS or charging station located at a parking space or location of a single landed household, that is within a defined boundary that forms part of the single household's property, which an unauthorised vehicle is restricted from accessing, e.g. user in a landed dwelling home or townhouse”.
- b) amend the requirement for electromagnetic compatibility test to comply with IEC 61851-21-2, “Electric vehicle conductive charging system – Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply – EMC requirements for off board electric vehicle charging systems”.

Users of the standard include electric vehicle manufacturers, contractors, suppliers, 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](#).