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ENTERPRISE SINGAPORE CALLS FOR PUBLIC COMMENTS – 7 OCTOBER 2022

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 – [actions on structures](#) (4 standards), [design of concrete structures](#) (4 standards)

Chemical – [hazard communication](#) (2 standards), [bitumen-based filling compounds](#)

Environment and Resources – [rotating electrical machines](#)

Quality and Safety – [occupational health and safety management systems](#)

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

Closing date for comments: **8 December 2022** (except for the standards on hazard communication which will close on **8 November 2022**).

Please submit comments to: 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:

Manufacturing – [additive manufacturing process specification for aviation](#)

Quality and Safety – [outdoor adventure and education](#)

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

Closing date for comments: **8 November 2022**

B.2 Proposal for the Review of Technical References

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Singapore Standards and Technical References are reviewed to determine if they should be updated, confirmed or withdrawn (if they no longer serve the industry's needs) or classified as mature standards (no foreseeable changes; to be reviewed only upon request).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

Trade and connectivity – [freight container equipment interchange receipt](#)

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 November 2022**

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) Building and Construction

Confirmation

1. Eurocode 1: Actions on structures

Part 3: Actions induced by cranes and machinery (SS EN 1991-3:2010(2015))
Singapore National Annex to Eurocode 1: Actions on structures – Part 3: Actions induced by cranes and machinery (NA to SS EN 1991-3:2010(2015))

This standard specifies imposed loads (models and representative values) associated with cranes on runway beams and stationary machines which include dynamic effects and braking, acceleration and accidental forces.

Part 4: Silos and tanks (SS EN 1991-4:2010(2015))
Singapore National Annex to Eurocode 1: Actions on structures – Part 4: Silos and tanks (NA to SS EN 1991-4:2010(2015))

This standard provides general principles and actions for the structural design of silos for the storage of particulate solids and tanks for the storage of fluids.

2. Eurocode 2: Design of concrete structures

Part 1-2: General rules – Structural fire design (SS EN 1992-1-2:2008(2015))
Singapore National Annex to Eurocode 2: Design of concrete structures – Part 1-2: General rules – Structural fire design (NA to SS EN 1992-1-2:2008(2015))

This standard covers requirements for resistance, serviceability, durability and fire resistance concrete structures, and deals with the design of concrete structures in the event of accidental fire exposure.

Part 3: Liquid retaining and containment structures (SS EN 1992-3:2010(2015))
Singapore National Annex to Eurocode 2: Design of concrete structures – Part 3: Liquid retaining and containment structures (NA to SS EN 1992-3:2010(2015))

This standard gives principles and application rules for the design of those elements of structure which directly support the stored liquids or materials (i.e. the directly loaded walls of tanks, reservoirs or silos).

Users of the standards on actions on structures and design of concrete structures include consultants, contractors, developers, engineers, suppliers/manufacturers, tertiary institutions, testing bodies, accreditation bodies and relevant government agencies.

(II) Chemical

Revision

3. Specification for hazard communication for hazardous chemicals and dangerous goods

Part 2: Globally harmonised system of classification and labelling of chemicals – Singapore’s adaptations (Revision of SS 586-2:2014)

This standard sets out provisions for the implementation of the Globally Harmonised System of Classification and Labelling (GHS) in Singapore. It provides an international system for the classification of chemicals by the types of hazards that they present. It also specifies standard hazard communication elements including labels and safety data sheets.

This revision enhances the requirements for labelling and training. It also includes a new physical hazard class for desensitised explosives. A new informative Annex B giving examples of labelling for chemicals supplied in small containers was added.

Part 3: Preparation of safety data sheets (SDS) (Revision of SS 586-3:2008)

This standard sets out provisions for the preparation, review, reissue and use of SDS. It covers the responsibility of the suppliers and manufacturers of chemical substances and preparations in the compilation and completion of an SDS. Users of chemicals can make use of the information in the SDS to prevent exposure to chemicals in the workplace and community.

This revision updates the examples provided according to the 7th revised edition of the GHS Purple Book. A new informative Annex D which provides guidance in describing and determining the empirical data of the substance or mixture was added.

SS 586 Part 2 and Part 3 were released for public comment from 4 April to 6 June 2022. The Working Group had since deliberated and addressed the comments received. The main changes are as follows:

Part 2

- Removed duplicated section and information.
- Provided further clarity on the reference document used.
- Alignment with GHS requirements for generic toxicity cut-off value.

Part 3

- Alignment with GHS requirements for generic toxicity cut-off value.
- Revised Annex A to allow for additional flexibility, generic and masking names may now be used.

Users of the series on hazard communication include chemical manufacturers, importers, suppliers, users, and supply chain service providers and relevant government agencies.

Comment period: 7 October to 8 November 2022

Mature standard

4. Bitumen-based filling compounds for electrical purposes (SS 109:1974(2015))

This standard specifies compounds based on bitumen suitable for use as filling compounds which may be subjected to electrical stress in service but is not applicable to oils, oil resisting

compounds or cold pouring compounds. The compounds are classified according to the softening points. The standard specifies the electrical and physical properties as well as tests for these compounds.

Users of the standard include transformer manufacturers and suppliers, licensed electrical workers, consultants, contractors and relevant government agencies.

It is proposed to classify SS 109 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.

(III) Environment and Resources

Revision

5. Rotating electrical machines – Part 1: Rating and performance (Revision of SS IEC 60034-1:2017) (Identical adoption of IEC 60034-1:2022)

This standard is applicable to all rotating electrical machines, except rotating electrical machines for rail and road vehicles, which are covered by the IEC 60349 series, “Electrical traction – Rotating electrical machines for rail and road vehicles”.

Machines within the scope of this standard may also be subject to superseding, modifying or additional requirements in other standards, for example, IEC 60079, “Explosive atmospheres” and IEC 60092, “Electrical installations in ships”.

Users of the standard include suppliers, Institutes of Higher Learning, training providers and relevant government agencies.

(IV) Quality and Safety

Confirmation

6. Occupational health and safety management systems – Requirements with guidance for use (Identical adoption of ISO 45001:2018)

This standard specifies requirements for an occupational health and safety (OH&S) management system, and sets out provisions for its use, to enable organisations to provide safe and healthy workplaces by preventing work-related injury and ill health, as well as by proactively improving its OH&S performance.

It is applicable to any organisation that wishes to establish, implement and maintain an OH&S management system to improve occupational health and safety, eliminate hazards and minimise OH&S risks (including system deficiencies), take advantage of OH&S opportunities and address OH&S management system nonconformities associated with its activities.

Users of the standard include TIC bodies, industry associations, academic institutions, training providers, suppliers, buyers, manufacturers, service providers and relevant government agencies.

Copies of the drafts and standards are available at:

Viewing from Singapore Standards eShop

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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

(I) Manufacturing

1. Additive manufacturing process specification for aviation (filament layer manufacturing)

This standard provides baseline requirements which allow users to manufacture low criticality aircraft parts for use in aviation maintenance, repair and overhaul (MRO) applications. It covers the following processes:

- a) Material management
- b) Machine and operations
- c) Printing
- d) Handling

It does not include design provisions.

Potential users of the standard include, aviation companies, testing and certification bodies, research institutions, Institutes of Higher Learning and relevant government agencies.

(II) Quality and Safety

2. Outdoor adventure and education (OAE)

This standard applies to outdoor adventure organisations providing OAE activities (paid/unpaid and indoor/outdoor) for educational and training purposes to participants, and organisations providing OAE competency training and certification to trainees. It includes the provision of OAE activities where trained staff (usually termed the “guide”, “instructor”, “trainer” or “safety manager”) are responsible for ensuring the safety of participants or trainees.

This standard covers the following OAE activities:

- a) Challenge ropes courses (high and low; vertical and horizontal);
- b) Rock climbing;
- c) Abseiling;
- d) Kayaking;
- e) Sailing;
- f) Rowing;
- g) Dragon boating;
- h) Trekking;
- i) Expeditions (land- and water-based);
- j) Problem-solving games;

- k) Improvised rafting; and
- l) Camping.

It is not applicable to outdoor and adventure activities for recreation and therapy. In addition, the scope excludes children's playgrounds and other activity sites or events that are designed for unsupervised use.

Potential users of the standard include academic institutions, guides, instructors, trainers, safety managers, testing laboratories and relevant government agencies.

B.2) Proposal for the Review of Technical References

(I) Electrical and Electronic

1. Technical Reference – Smart plugs for homes (TR 54:2016)

This standard covers specific safety and performance requirements of a smart plug which is constructed as an integral unit incorporating both a 3-pin plug portion and a shuttered socket-outlet portion with built-in functions to facilitate remote controlling or monitoring of home appliances, energy measurement, and any other optional functions. TR 54 is reviewed with the intention of elevating it to a Singapore Standard.

Users of the standard include home and building occupants, electrical appliances suppliers, manufacturers, importers, home designer specialists, consultants, contractors and relevant government agencies.

(II) Trade and Connectivity

2. Technical Reference – Freight container equipment interchange receipt (TR 39:2015)

This standard:

- a) stipulates the definitions and descriptions of the conditions of freight containers;
- b) provides information on the conduct of visual survey of freight containers; and
- c) recommends the relay and acknowledgement of the condition of the freight container at each handover point of the freight container through the container supply chain.

TR 39 is reviewed with the intention of elevating it to a Singapore Standard.

Users of the standard include members of the Singapore Logistics Association, Container Depot and Logistics Association (Singapore) and Singapore Transport Association, and logistics companies across the supply chain handling freight containers (e.g. port operators, shipping companies, container owners/operators, warehouse operators, truckers, hauliers, depot operators, etc.).

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](#).