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ENTERPRISE SINGAPORE CALLS FOR PUBLIC COMMENTS – 2 OCTOBER 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:

Biomedical and Health – [cosmetics](#) (3 standards)

Building and Construction – [manhole tops](#), [steel tubes and fittings](#) (2 standards)

Chemical – [flammable liquids](#), [bituminous emulsion](#)

Electrical and Electronic – [electric cables](#), [photovoltaic \(PV\) modules](#) (3 standards)

Information Technology – [smart card ID](#)

Safety and Quality – [quality management](#) (3 standards), [protective security](#)

Closing date for comments: **3 December 2023** (except for SS 532 which will close on **3 November 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 standards and contents that can be included into the following proposals:

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

Transportation – [track allocation for track access](#), [operations of depot](#)

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Singapore Standards and Technical References are reviewed to determine if they should be updated, confirmed or withdrawn (if they no longer serve the industry's needs) or classified as mature standards (no foreseeable changes; to be reviewed only upon request).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

Chemical – [water-based sealer](#)

The review is ongoing, and the new version/draft is 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: **3 November 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) Biomedical and Health

Revision

1. Cosmetics – Microbiology – Evaluation of the antimicrobial protection of a cosmetic product (Revision of SS ISO 11930:2017) (Identical adoption of ISO 11930:2019 and Amd 1:2022)

This standard specifies a procedure for the interpretation of data generated by the preservation efficacy test or by the microbiological risk assessment, or both, when evaluating the overall antimicrobial protection of a cosmetic product.

The key changes in this revision include the following:

- Acceptance of two types of diluents for bacteria and *Candida albicans*;
- Modified details for the methodology for documenting colony counts.

2. Cosmetics – Sun protection test methods – In vivo determination of sunscreen UVA protection (Revision of SS ISO 24442:2017) (Identical adoption of ISO 24442:2022)

This standard specifies a method for the in vivo determination of UVA protection factor of sunscreen products. It is applicable to products that contain any component able to absorb, reflect or scatter ultraviolet rays and which are intended to be placed in contact with human skin.

The key changes in this revision include updates to align with ISO 24444, “Cosmetics – Sun protection test methods – In vivo determination of the sun protection factor (SPF)”.

3. Cosmetics – Determination of sunscreen UVA photoprotection in vitro (Revision of SS ISO 24443:2017) (Identical adoption of ISO 24443:2021)

This standard specifies an in vitro procedure to characterise the UVA protection of sunscreen products. Specifications are given to enable determination of the spectral absorbance characteristics of UVA protection in a reproducible manner.

The key changes in this revision include the following:

- Acceptance of moulded and sandblasted polymethylmethacrylate (PMMA) plates;
- Introduction of a new high UVA PF standard P8;
- Calculation of the coefficient "C" from in vivo screening SPF;
- Description of the application gesture according to tested products.

Users of the standards on cosmetics include cosmetic manufacturers and suppliers.

(II) **Building and Construction**

Withdrawal

4. Manhole tops and surface-box tops (SS 30:1999(2012))

This standard is recommended for withdrawal as it has been replaced by the SS EN 124 series, "Gully tops and manhole tops for vehicular and pedestrian areas".

5. Non-alloy steel tubes and fittings for the conveyance of water and other aqueous liquids – Technical delivery conditions (SS EN 10224:2013) (Identical adoption of EN 10224:2002)

6. Joints for the connection of steel tubes and fittings for the conveyance of water and other aqueous liquids (SS EN 10311:2013) (Identical adoption of EN 10311:2005)

The standards on steel tubes and fittings are recommended for withdrawal due to low usage. Users can refer directly to the latest editions of EN 10224 and EN 10311.

(III) **Chemical**

Revision

7. Code of practice for the storage of flammable liquids (Revision of SS 532:2016)

This standard sets out the requirements and recommendations for the safe storage and handling of flammable liquids, as classified in the United Nations Globally Harmonised System of Classification and Labelling of Chemicals (GHS). It covers flammable liquids of Category 1, 2, 3 and 4 as classified in GHS, and liquids of flash point up to 150 °C.

In this revision, the key changes are as follows:

- Allowing non-metallic containers to be used for storage of chemicals in niche industries (e.g. semiconductor, pharmaceutical);
- Enhancing safety classification and equipment design considerations, and firefighting and mitigating measures by referencing the latest practices found in applicable NFPA and Singapore Standards;
- Streamlining of existing storage requirements to the needs of portable units that can be located either indoor or outdoor;
- Removing recommendations to set up vapor barrier in view of current industry practices.

The draft standard was released for public comment from 2 December 2022 to 3 February 2023. The Working group had since deliberated and addressed all comments received on the standard.

Users of the standard include petrochemical plants, refineries, oil storage facilities, facilities processing or storing flammable and combustible liquids, associations, fire engineers, safety officers and relevant government agencies.

Comment period: 2 October to 3 November 2023

Mature

8. Specification for bituminous emulsion for roof waterproofing (SS 133:2017)

This standard covers bituminous emulsions capable of being sprayed on or brush-applied in relatively thick films as part of a waterproofing system for roof surfaces having inclines of not less than 1 in 70.

It is proposed to classify SS 133 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 bitumen manufacturers/suppliers, coating suppliers, testing laboratories, contractors, architects, engineers and relevant government agencies.

(IV) **Electrical and Electronic**

New

9. **Test methods for electric cables with rated voltages up to and including 450/750 V** (Identical adoption of IEC 63294:2021)

This standard specifies the test methods for electric cables with rated voltages up to and including 450/750 V not included in the IEC 60811 series, “Electric and optical fibre cables – Test methods for non-metallic materials”.

Users of the standard include testing and inspection companies, cable manufacturers/suppliers, building contractors and service providers, engineers, industry associations and relevant government agencies.

Revision

10. **Photovoltaic (PV) modules – Salt mist corrosion testing** (Revision of SS IEC 61701:2019) (Identical adoption of IEC 61701:2020)

This standard describes test sequences which can determine the resistance of different PV modules to corrosion from salt mist. It applies to both flat plate PV modules and concentrator PV modules and assemblies.

11. **Photovoltaic (PV) module safety qualification – Part 1: Requirements for construction** (Revision of SS IEC 61730-1:2020) (Identical adoption of IEC 61730-1:2023)

12. **Photovoltaic (PV) module safety qualification – Part 2: Requirements for testing** (Revision of SS IEC 61730-2:2020) (Identical adoption of IEC 61730-2:2023)

SS IEC 61730 Part 1 and Part 2 specify and describe the fundamental construction requirements for PV modules in order to provide safe electrical and mechanical operation. Specific topics are provided to assess the prevention of electrical shock, fire hazards, and personal injury due to mechanical and environmental stresses.

Users of the standards on PV modules include asset owners, solar companies, testing and certification bodies, institutes of higher learning, research institutes and relevant government agencies.

(V) **Information Technology**

Mature

13. **Specification for smart card ID** (Revision of SS 529:2006)

The standard specifies the data structure, security and access conditions for a smart card that contains personal identification data. It applies to devices such as handheld computing devices (personal digital assistants), watches and mobile phones.

It is proposed to classify SS 529 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 issuers of smart cards that contain data for personal identification, and developers of smart card readers and application software that read and verify these smart cards.

(VI) **Safety and Quality**

Confirmation

14. Quality management systems – Fundamentals and vocabulary (SS ISO 9000:2015)
(Identical adoption of ISO 9000:2015)

This standard describes the fundamental concepts and principles of quality management which are universally applicable to the following:

- Organisations seeking sustained success through the implementation of a quality management system;
- Customers seeking confidence in an organisation's ability to consistently provide products and services conforming to their requirements;
- Organisations seeking confidence in their supply chain that their product and service requirements will be met;
- Organisations and interested parties seeking to improve communication through a common understanding of the vocabulary used in quality management;
- Organisations performing conformity assessments against the requirements of SS ISO 9001.

15. Quality management systems – Requirements (SS ISO 9001:2015) (Identical adoption of ISO 9001:2015)

This standard specifies requirements for a quality management system when an organisation:

- needs to demonstrate its ability to consistently provide products and services that meet customer and applicable statutory and regulatory requirements; and
- aims to enhance customer satisfaction through the effective application of the system, including processes for improvement of the system and the assurance of conformity to customer and applicable statutory and regulatory requirements.

It is applicable to organisations of all types, sizes and product/service offerings.

New

16. Quality management – Guidance on statistical techniques for SS ISO 9001:2015 (Identical adoption of ISO 10017:2021)

This standard gives guidelines for the selection of appropriate statistical techniques that are applicable to organisations of all sizes and complexity, in developing, implementing, maintaining and improving a quality management system in conformity with SS ISO 9001:2015, "Quality management systems – Requirements".

Users of the three standards on quality management include buyers, manufacturers, suppliers, service providers, testing, inspection and certification (TIC) bodies and relevant government agencies.

17. Security and resilience – Protective security – Guidelines for crime prevention through environmental design (Identical adoption of ISO 22341:2021)

This standard provides guidelines to organisations for establishing the basic elements, strategies and processes for preventing and reducing crime and the fear of crime at a new or existing built environment. It recommends the establishment of countermeasures and actions to treat crime and security risks in an effective and efficient manner by leveraging environmental design.

Potential users of the standard include security industry associations, security services companies, academic institutions and relevant government agencies.

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

(I) Information Technology

1. Energy efficiency of data centre IT equipment

This standard sets requirements to improve the energy efficiency of IT equipment deployed in data centres. Such equipment includes enterprise compute servers, storage systems and large network equipment.

It covers the following:

- Energy efficiency requirements for IT equipment used in the data centres;
- List of applicable and recognised test standards / metrics used to measure the energy efficiency of the abovementioned equipment;
- Guidelines to help data centres compare the energy efficiency of IT equipment from different suppliers during their procurement process;
- Recommended operating environmental conditions for IT equipment under tropical climate, where IT equipment with higher operating environmental conditions can be deployed and operated at higher temperatures, thereby requiring less cooling energy, as indicated in SS 697:2023, "Deployment and operation of data centre IT equipment under tropical climate".

Potential users of the standard include data centre operators, IT equipment suppliers and relevant government agencies.

(II) Transportation

2. Technical Reference – Mass rapid transit and light rail transit – Guide for track allocation for track access

This standard provides guidance for railway operators, and potentially private lines, on how to develop procedures to effectively manage the track/guideway allocation in the following areas:

- Emergencies impacting passenger service;
- Service delivery and support considerations;
- Process management;
- Submission and approval process of track allocation requests;
- Site-specific work plan;
- Dissemination of track allocation information;
- Authorisation to start work;
- Coordination and tracking of records/documentation.

3. **Technical Reference – Mass rapid transit – Guide for operations of depot**

This standard provides guidance for railway operators, and potentially private lines, on how to develop procedures to better manage the safe operation of the depot in the following areas:

- Staffing levels and authority;
- Requirements for train preparation before launching for passenger service;
- Operating a train through a train wash plant;
- Operating rules for train shunting and when working on rail vehicles;
- Managing access to track.

Potential users of the standards on railway include rail transport operators, contractors, manufacturers/suppliers, tertiary institutions and relevant government agencies.

B.2) Proposal for the Review of Singapore Standards

Chemical

Specification for water-based sealer for interior and exterior uses (SS 579:2015)

This standard applies to ready-to-use, air drying water-based sealer for both interior and exterior uses.

The standard will be reviewed with the intention to confirm it with an amendment to align SS 579 with industry practices and other relevant Singapore Standards. This includes updates to lead limit, chromium (VI) test method, and emission limit test method. Recommendations for disposal of used paint packaging will also be incorporated for sustainability measures.

Users of the standard include paint manufacturers/suppliers, test laboratories, contractors, applicators, architectural associations, consultants, facilities/property managers, building surveyors 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](#).