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ENTERPRISE SINGAPORE CALLS FOR PUBLIC COMMENTS – 13 SEPTEMBER 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 – [non-alloy steel tubes](#), [design of steel structures](#) (14 standards)

Chemical – [liquid hand soap](#)

Electrical and Electronic – [smart plugs](#), [escalators](#)

Environment and Resources – [energy management systems](#)

Information Technology – [information security management systems](#), [information security controls](#)

Safety and Quality – [food safety](#) (2 standards), [conformity assessment](#)

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

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

Please submit comments to: standards@enterprisesg.gov.sg.

B) 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Singapore Standards and Technical References are reviewed to determine if they should be updated, confirmed or withdrawn (if they no longer serve the industry's needs) or classified as mature standards (no foreseeable changes; to be reviewed only upon request).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 – [air-conditioning and mechanical ventilation](#), [indoor air quality](#), [facility design guidelines](#) (3 standards)

Chemical – [industrial gas cylinders](#)

Information Technology – [data as a service](#), [data quality metrics](#), [data versioning](#)

Services – [electronic commerce transactions](#)

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 October 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) Building and Construction

Confirmation

1. Non-alloy steel tubes suitable for welding and threading – Technical delivery conditions (SS EN 10255:2013) (Identical adoption of EN 10255:2004+A1:2007)

This standard specifies the requirements for circular non-alloy steel tubes suitable for welding and threading and provides a number of options for the finish of tube ends and coatings. It covers tubes of specified outside diameter 10.2 mm to 165.1 mm (thread size 1/8 to 6) in two series, medium and heavy, and three types of designated thicknesses.

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

2. Eurocode 3: Design of steel structures

Part 1-7: Plated structures subject to out of plane loading (SS EN 1993-1-7:2011(2016)) (Adoption of EN 1993-1-7:2007)

This standard provides basic design rules for the structural design of unstiffened and stiffened plates which form part of plated structures such as silos, tanks or containers that are loaded by out-of-plane actions.

Part 1-8: Design of joints (SS EN 1993-1-8:2010(2016)) (Adoption of EN 1993-1-8:2005) Singapore National Annex to Eurocode 3: Design of steel structures – Part 1-8: Design of joints (NA to SS EN 1993-1-8:2010(2016)) (Adoption of NA to BS EN 1993-1-8:2005)

This standard and its NA provide design methods for the design of joints subject to predominantly static loading using steel grades S235, S275, S355, S420, S450 and S460.

Part 1-9: Fatigue (SS EN 1993-1-9:2010(2016)) (Adoption of EN 1993-1-9:2005) Singapore National Annex to Eurocode 3: Design of steel structures – Part 1-9: Fatigue (NA to SS EN 1993-1-9:2010(2016)) (Adoption of NA to BS EN 1993-1-9:2005)

This standard and its NA provide methods for the assessment of fatigue resistance of members, connections and joints subjected to fatigue loading.

Part 1-10: Material toughness and through-thickness properties (SS EN 1993-1-10:2010(2016)) (Adoption of EN 1993-1-10:2005) Singapore National Annex to Eurocode 3: Design of steel structures – Part 1-10: Material toughness and through-thickness properties (NA to SS EN 1993-1-10:2010(2016)) (Adoption of NA to BS EN 1993-1-10:2005)

This standard and its NA contain design guidance for the selection of steel for fracture toughness and for through thickness properties of welded elements where there is a significant risk of lamellar tearing during fabrication.

Part 1-11: Design of structures with tension components (SS EN 1993-1-11:2011(2016)) (Adoption of EN 1993-1-11:2006)

Singapore National Annex to Eurocode 3: Design of steel structures – Part 1-11: Design of structures with tension components (NA to SS EN 1993-1-11:2011(2016)) (Adoption of NA to BS EN 1993-1-11:2006)

This standard and its NA provide design rules for structures with tension components made of steel, which, due to their connections with the structure, are adjustable and replaceable.

Part 1-12: Additional rules for the extension of EN 1993 up to steel grades S700 (SS EN 1993-1-12:2009(2016)) (Adoption of EN 1993-1-12:2007)

Singapore National Annex to Eurocode 3: Design of steel structures – Part 1-12: Additional rules for the extension of EN 1993 up to steel grades S700 (NA to SS EN 1993-1-12:2009(2016)) (Adoption of NA to BS EN 1993-1-12:2007)

This standard and its NA provide rules that can be used in conjunction with relevant parts of SS EN 1993 to enable steel structures to be designed with steel of grades greater than S460 to S700.

Confirmation with amendment

3. Eurocode 3: Design of steel structures

Part 1-5: Plated structural elements (SS EN 1993-1-5:2009(2016)) (Adoption of EN 1993-1-5:2006/A1:2017 and EN 1993-1-5:2006/A2:2019)

Singapore National Annex to Eurocode 3: Design of steel structures – Part 1-5: Plated structural elements (NA to SS EN 1993-1-5:2009(2016)) (Adoption of NA+A1:2016 to BS EN 1993-1-5:2006)

This standard and its NA set out design requirements of stiffened and unstiffened plates which are subject to in-plane forces.

This standard and its NA are confirmed with the proposed draft amendments to include technical rules for effective loaded length, reduce stress method, plate type behaviour and stiffeners for detailing.

4. Part 1-6: Strength and stability of shell structures (SS EN 1993-1-6:2011(2016)) (Adoption of EN 1993-1-6:2007/A1:2017)

This standard provides basic design rules for plated steel structures that have the form of a shell revolution.

This standard is confirmed with the proposed draft amendment to update the guidelines and technical rules on the design for shell structures.

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

(II) Chemical

Mature

5. Specification for liquid hand soap (SS 625:2016)

This standard specifies requirements for liquid hand soap meant for direct application to the skin exclusively for hand cleansing purposes. It covers the requirements for soap-based and synthetic surfactant-based liquid hand soap.

It is proposed to classify SS 625 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 liquid hand soap manufacturers/suppliers/distributors, fast-moving consumer goods, specialty chemical industries, associations, academic/research institutions and relevant government agencies.

(III) **Electrical and Electronic**

New

6. **Smart plugs for homes** (Review of TR 54:2016)

This standard sets out the requirements for smart plugs designed for use in homes. It covers requirements for the following:

- Low voltage and extra-low voltage components;
- Essential tests under normal and abnormal conditions with the smart plug as an assembly for delivering a current not exceeding 10 A, and at a nominal voltage of 230 V a.c.;
- Communication protocols.

Potential users of the standard include manufacturers/suppliers, architects, engineers, academic institutions, consultants, testing laboratories, contractors and relevant government agencies.

Revision

7. **Code of practice for design, installation and maintenance of escalators and moving walks** (Revision of SS 626:2017+A1:2017) (Modified adoption of EN 115-1:2017)

This standard sets out requirements for escalators and moving walks (pallet or belt type) and covers hazardous situations and events relevant to escalators and moving walks when they are used as intended and under conditions of misuse that are reasonably foreseeable by the manufacturer.

Users of the standard include escalator manufacturers, engineers, consultants, training providers, asset owners, institutes of higher learning and relevant government agencies.

(IV) **Environment and Resources**

Revision

8. **Energy management systems – Evaluating energy performance using energy performance indicators and energy baselines** (Revision of SS ISO 50006:2014) (Identical adoption of ISO 50006:2023)

This standard specifies how to establish, use and maintain energy performance indicators and energy baselines to evaluate energy performance in any organisation including those using SS ISO 50001:2018, “Energy management systems – Requirements with guidance for use”. Additional guidance is given on how to measure and monitor energy performance and demonstrate energy performance improvement.

It is applicable to organisations of all types, sizes and levels of maturity in the field of energy management.

Users of the standard include industry practitioners of energy management systems, training institutes and relevant government agencies.

(V) **Information Technology**

Revision

9. **Information security, cybersecurity and privacy protection – Information security management systems – Requirements** (Revision of SS ISO/IEC 27001:2019) (Identical adoption of ISO/IEC 27001:2022)

This standard provides companies of any size and from all sectors of activity with guidance for establishing, implementing, maintaining and continually improving an information security management system.

The key changes in this revision include updates to Annex A on information security controls to align with ISO/IEC 27002:2022.

10. **Information security, cybersecurity and privacy protection – Information security controls** (Revision of SS ISO/IEC 27002:2019) (Identical adoption of ISO/IEC 27002:2022)

This standard provides a reference set of generic information security controls including implementation guidance.

It is designed to be used by organisations:

- within the context of an information security management system based on ISO/IEC 27001;
- for implementing information security controls based on internationally recognised best practices;
- for developing organisation-specific information security management guidelines.

The key changes in this revision are as follows:

- Restructuring the original control domains into categories;
- Addition of new controls.

NOTE – This standard is intended to be used in conjunction with SS ISO/IEC 27001.

(VI) **Safety and Quality**

New

11. **Food safety – Part 2: Requirements for bodies providing evaluation and certification of products, processes and services, including an audit of the food safety system** (Identical adoption of ISO 22003-2:2022)

This standard is supplemental to SS ISO/IEC 17065:2017, “Conformity assessment – Requirements for bodies certifying products, processes and services”. It specifies the rules applicable for the audit of a food safety system and certification of products, processes and services complying with requirements of a certification scheme that is based on the internationally accepted principles of food safety and includes management system elements.

Revision

12. **Food safety – Part 1: Requirements for bodies providing audit and certification of food safety management systems** (Revision of TR ISO/TS 22003:2017) (Identical adoption of ISO 22003-1:2022)

This standard specifies the requirements for the audit and certification of a food safety management system (FSMS) complying with the requirements given in SS ISO 22000:2018, “Food safety management systems – Requirements for any organisation in the food chain” (or other specified FSMS requirements). It also provides the necessary information and confidence to customers about the way certification of their suppliers has been granted.

Users of the standards on food safety include testing, inspection and certification (TIC) bodies and relevant government agencies.

13. Conformity assessment – General requirements for the competence of proficiency testing providers (Revision of SS ISO/IEC 17043:2017) (Identical adoption of ISO/IEC 17043:2023)

This standard specifies general requirements for the competence and impartiality of proficiency testing (PT) providers and consistent operation of all PT schemes. It can be used as a basis for specific technical requirements for particular fields of application.

Users of the standard include PT scheme owners, organisations and schemes using peer-assessment, accreditation bodies and others who can use these requirements in confirming or recognising the competence of PT providers.

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 the Proposal for the Review of Standards

(I) Building and Construction

1. Code of practice for air-conditioning and mechanical ventilation in buildings (SS 553:2016+A2:2021)

This standard provides guidance in the design, construction, installation, testing and commissioning, operation and maintenance of air-conditioning and mechanical ventilation systems in all commercial, office and institutional buildings except healthcare facilities.

SS 553 will be reviewed with the intention to incorporate new advancements, address gaps and align with international best practices.

Users of the standard include engineers, architects, building owners, manufacturers, facility managers and relevant government agencies.

2. Code of practice for indoor air quality for air-conditioned buildings (SS 554:2016+A1:2021)

The standard specifies indoor air quality that will be acceptable to most building occupants and aims to minimise the risk of adverse health effects. It also provides information, advice and guidance on measures to improve the quality of air in air-conditioned environments.

The standard applies to all air-conditioned premises where air-conditioning is used intermittently or continuously, with the exception of residential premises, factory production areas, hospitals, polyclinics and laboratories.

SS 554 will be reviewed with the intention to update the indoor air quality parameters, threshold targets and methods relevant for Singapore.

Users of the standard include engineers, building owners, facility managers, and relevant government agencies.

3. **Technical Reference – Facility design guidelines for acute general hospitals** (TR 42:2015)
4. **Technical Reference – Facility design guidelines for community hospitals** (TR 59:2017)
5. **Technical Reference – Facility design for polyclinics** (TR 65:2018)

These standards on facility design specify the provisions for the basic space and design planning.

TR 42, TR 59 and TR 65 will be reviewed with the intention to confirm the standards.

Users of these standards include design consultants and personnel who are involved in the design, construction, operation and maintenance of the above facilities.

(II) Chemical

6. **Specification for identification of contents of industrial gas cylinders** (SS 152:2016)

This standard specifies requirements for identification of contents of gas cylinders by colour code. It also specifies gas cylinder hazard labelling and stamp marking requirements.

It does not cover gas cylinders for the following applications:

- Breathing apparatus;
- Fire extinguishers;
- Food and beverages;
- LPG;
- Medical gases.

The standard will be reviewed with the intention to update it.

Users of the standard include organisations that handle, manufacture, and distribute industrial gas cylinders as well as end users of these cylinders, industry associations, gas professionals, academic institutions, testing laboratories and relevant government agencies.

(III) Information Technology

7. **Technical Reference – Data as a service (DaaS) application programming interface (API) design and implementation** (TR 33:2013)
8. **Technical Reference – Data quality metrics** (TR 41:2015)
9. **Technical Reference – Data versioning** (TR 55:2016)

These standards on data will be reviewed with the intention of withdrawing them as they are obsolete and the demand for these TRs are low.

(IV) Services

10. **Technical Reference – Guidelines for electronic commerce transactions** (TR 76:2020+A1:2022)

This standard provides guidelines on the key activities surrounding online transactions and encourages the use of certain mechanisms that will help individuals who are implementing and/or improving their online business.

TR 76 will be reviewed with the intention to update on the following:

- Competition-related issues between e-marketplaces, merchants and third-party service providers;
- Consumer protection issues between both business-to-business (B2B) and business-to-consumer (B2C);
- Guidance for the actions to be taken upon identification of certain types of items transacted online.

Users of the standard include e-retailers, merchants and e-marketplaces.

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](#).