Enterprise Singapore

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ENTERPRISE SINGAPORE CALLS FOR PUBLIC COMMENTS – 2 DECEMBER 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:

Biomedical and Health – biosafety laboratory 3 facilities, medical laboratories

Chemical – flammable liquids

Electrical and Electronic – luminaire performance, double-capped LED lamps

Environment and Resources – energy management systems

Information Technology – IoT interoperability

Manufacturing – OPC unified architecture (6 standards)

Quality and Safety – occupational health and safety management

For more information on viewing the documents, click here.

Closing date for comments: **3 February 2023**

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:

Chemical – methanol bunkering

Food – urban farms

Transportation – configuration management, obsolescence management

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

Closing date for comments: **3 January 2023**

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Singapore Standards and Technical References are reviewed to determine if they should be updated, confirmed or withdrawn (if they no longer serve the industry's needs) or classified as mature standards (no foreseeable changes; to be reviewed only upon request).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

Building and Construction – pollution control

Services – hotel security

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: **3 January 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*

New

1.   High containment facility (biosafety level 3) requirements

This standard covers the design principles, management and operating policies, performance testing and best practices for biosafety level 3 (BSL-3) facilities (also termed as high containment facilities), which are handling hazardous biological agents. The standard includes the use of:

- animals that can be handled within primary containment isolators/cages, whereby the room is the secondary containment;
- loose pen animals, whereby the room is the primary containment; and
- arthropods.

Potential users of the standard include BSL-3 laboratories and companies involved in the design and construction of BSL-3 laboratories.

Revision

2.   Medical laboratories – Requirements for quality and competence (Revision of SS ISO 15189:2017) (Identical adoption of upcoming ISO 15189)

This standard specifies requirements for quality and competence in medical laboratories. It can be used by medical laboratories in developing their quality management systems and assessing their own competence.

Users of the standard include medical laboratories, testing, inspection and certification (TIC) bodies and relevant government agencies.

NOTE – Draft SS ISO 15189 is currently based on the Final Draft International Standard but the adoption will be based on the published ISO standard.

(II) *Chemical*

Revision

3. **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.

The main changes in this revision are as follows:

− Inclusion of non-metallic containers to be used for storage of chemicals (subject to approval where applicable);
− Enhancement to the existing firefighting, safeguards and mitigation measures by referencing latest practices found in applicable National Fire Protection Association and Singapore Standards;
− Streamlining of existing storage requirements to the needs of portable units which can be located either indoors or outdoors; and
− Exclusion of recommendations on setting up vapour barriers in view of current industry practices.

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

(III) *Electrical and Electronic*

Revision

4. **Luminaire performance – Part 1: General requirements** (Revision of SS IEC 62722-1:2015) (Identical adoption of IEC 62722-1:2022)

This standard specifies the performance and environmental requirements for luminaries, incorporating electric light sources for operation from supply voltages up to 1000 V. It covers requirements for luminaires to support energy efficient use and responsible environmental management to the end of life.

Confirmation

5. **Double-capped LED lamps designed to retrofit linear fluorescent lamps – Safety specifications** (SS IEC 62776:2015) (Identical adoption of IEC 62776:2014)

This standard specifies the safety and interchangeability requirements, and the exchange operation together with the test methods and conditions required to show compliance of double-capped LED lamps with G5 and G13 caps.

Users of the electrical and electronic standards include lighting manufacturers, suppliers, lighting consultants, contractors, test labs and relevant government agencies.

(IV) *Environment and Resources*

Confirmation

6. **Energy management systems – Measurement and verification of energy performance of organisations – General principles and guidance** (SS ISO 50015:2014) (Identical adoption of ISO 50015:2014)

This standard sets out provisions for the measurement and verification (M&V) of energy performance of an organisation or its components. It can be used independently, or in conjunction with other standards or protocols, and can be applied to all types of energy.

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

(V) *Information Technology*

New

7. IoT interoperability for Smart Nation

This standard is intended to replace the existing Internet of Things (IoT) related Technical References – TR 38:2014, "Sensor network for smart nation (public areas)", TR 40:2015, "Sensor networks for smart nation (homes)"; TR 47:2016, "IoT reference architecture for smart nation", and TR 50:2016, "IoT information and services interoperability for smart nation".

This standard identifies common requirements for the interoperability of IoT systems to support a variety of use cases and their integration. Additionally, it specifies a minimum set of coherent international and/or industry standards to achieve interoperability.

Potential users of the standard include IoT architects, IoT system integrators, IoT solution providers, smart city planners and relevant government agencies.

(VI) *Manufacturing*

New

8. OPC unified architecture

Part 12: Discovery and global services (Identical adoption of IEC 62541-12:2020)

This standard specifies how OPC Unified Architecture (OPC UA) Clients and Servers interact with DiscoveryServers when used in different scenarios. It also defines information models for Certificate management, KeyCredential management and Authorisation Services.

Part 14: PubSub (Identical adoption of IEC 62541-14:2020)

This standard defines the OPC UA PubSub communication model. It also defines an OPC UA publish subscribe pattern which complements the client server pattern defined by the Services in IEC 62541-4.

Revision

Part 9: Alarms and Conditions (Revision of SS IEC/TR 62541-9:2019) (Identical adoption of IEC SS 62541-9:2020)

This standard specifies the representation of Alarms and Conditions in the OPC UA and includes the Information Model representation of Alarms and Conditions in the OPC UA address space.

Part 10: Programs (Revision of SS IEC/TR 62541-10:2019) (Identical adoption of IEC SS 62541-10:2020)

This standard defines the information model associated with Programs in the OPC UA, which includes the description of the NodeClasses, standard Properties, Methods and Events and associated behaviour and information for Programs.

Part 11: Historical Access (Revision of SS IEC/TR 62541-11:2019) (Identical adoption of IEC SS 62541-11:2020)

This standard defines the information model associated with Historical Access. It particularly includes additional and complementary descriptions of the NodeClasses and Attributes needed for Historical Access, additional standard Properties, and other information and behaviour.

Part 13: Aggregates (Revision of SS IEC/TR 62541-13:2019) (Identical adoption of IEC SS 62541-13:2020)

The standard defines the information model associated with Aggregates.

Users of the standards include system integrators, TIC bodies, professional institutions, institutes of higher learning, training providers and relevant government agencies.

(VII)   *Quality and Safety*

   New

9.   **Occupational health and safety management – Guidelines for organisations on preventing and managing infectious diseases** (Identical adoption of upcoming ISO 45006)

   This standard provides guidelines for organisations on how to prevent or control exposure to infectious agents and manage the risks associated with infectious diseases that:

   −   present a risk of severe ill health or death and can impact the health, safety and wellbeing of workers and relevant interested parties;
   −   present a lower risk to health yet have a significant impact on the organisation, its workers and relevant interested parties.

   It is applicable to organisations of all sizes and sectors.

   NOTE 1 – Draft SS ISO 45006 is currently based on the Draft International Standard but the final adoption will be based on the published ISO standard, which is targeted to be published in 2023.

   NOTE 2 – Comments received will be considered by the national committee responsible for Singapore's inputs to the ISO standards and where appropriate, taken on for international consideration.

Copies of the drafts and standards are available at:

Viewing from Singapore Standards eShop
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Closed on Saturdays, Sundays and Public Holidays

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) *Chemical*

1. Technical Reference – Code of practice for methanol bunkering

This standard covers the operational and safety requirements for methanol bunkering and delivery, safety checklists as well as crew training and competency.

Potential users of the standard include bunker industry/shipping associations, bunker surveying companies, bunker suppliers, bunker craft operators, bunker service providers, bunker buyers, research institutes, training providers, and relevant government agencies.

(II) *Food*

2. Clean and green standard for urban farms (Animal husbandry for layer farms)

This standard encompasses requirements on farming practices and management to achieve clean and green production systems and farm products. This includes performance indicators for resource use efficiency, waste generation, recycling, and diversion. Performance indicators are listed to help farms achieve goals for environmental sustainability, while producing high quality and safe eggs. This standard is applicable to all farming systems for poultry and quail layers through all phases of farm production.

Potential users of the standard include TIC bodies, farmers, farm suppliers, buyers of farm produce (e.g. importers, exporters and retailers), training providers, institutes of higher learning, and relevant government agencies.

(III) *Transportation*

3. Quality management – Guidelines for configuration management (Modified adoption of ISO 10007:2017)

This standard sets out provisions for railway organisations on the use of configuration management activities throughout the life cycle of assets and services. It outlines the responsibilities and authorities before describing the configuration management process, which includes configuration management planning, configuration identification, change control, configuration status accounting, and configuration audit.

4. Technical Reference – Obsolescence management for railway

This standard contains provisions for planning and implementing an obsolescence management system of railway assets by:

− establishing an obsolescence management policy;
− developing an obsolescence management plan and strategies to minimise obsolescence during design; and
− measuring and improving the performance of the outcomes of the obsolescence management activities.

It is applicable to all stages of a railway asset life cycle and can be used by any railway organisation that manages assets.

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

B.2) Proposal for the Review of Singapore Standards

(I) Building and Construction

1. Code of practice for pollution control (SS 593:2013+C1:2014)

This standard specifies the recommended pollution control requirements and good practices to safeguard clean air, clean land, clean water, and a quality living environment. It covers siting requirements for various types of developments, management of hazardous substances, toxic industrial wastes, land contamination, and remediation.

The standard is being reviewed to address the relevancy of the recommendations and best practices in areas including buffer distance for industries, pollution control, toxic industrial waste management and environmental site assessment. Additionally, the review takes into account changes in technology and local industry landscape over the years.

Users of the standard include developers, industrialists, architects, engineers, consultants, and relevant government agencies.

(II) Services

2. Hotel security (SS 545:2009 (2015))

This standard provides a framework for hotels in setting up security management systems in their respective organisations that would enable them to provide a safe and secure environment for their guests and staff. It sets out the basic security requirements and also provides the flexibility for hotels to plan a system that best fits their environment.

This standard does not include fire safety regulations and effective enforcement of fire safety standards stipulated in the Fire Safety Act.

Users of the standard include hoteliers and their employees in security and facilities management.

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.