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ENTERPRISE SINGAPORE CALLS FOR PUBLIC COMMENTS – 3 DECEMBER 2021

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 Standard documents:

Chemical – [hot-applied thermoplastic road marking materials](#)

Electrical and Electronic – [outlet units for master and community television antenna systems, installation of master antennae television systems](#)

Environment and Resources – [environmental management \(3 standards\)](#)

Quality and Safety – [fusion welding \(2 standards\)](#)

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

Please submit comments to: kay_chua@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 Technical References (pre-standards).

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:

Biomedical and Health – [antimicrobial and antiviral protection durability of surface disinfectants and coatings](#)

Chemical – [LNG bunkering](#)

Environment and resources – [environmental management](#)

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

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

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Singapore Standards and Technical References are reviewed to determine if they should be updated, confirmed or withdrawn (if they no longer serve the industry's needs) or classified as mature standards (no foreseeable changes; to be reviewed only upon request).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

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.

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 kay_chua@enterprisesg.gov.sg.

A) Notification of draft Singapore Standards for Publication

(I) Chemical

Confirmation

1. Specification for hot-applied thermoplastic road marking materials – Materials, performance and application (SS 589:2013)

This standard specifies the material and site performance requirements for white, yellow, red and black thermoplastic road marking materials and their constituents. Provision is made for reflectorisation using solid glass beads of a suitable grade and quality to improve the visibility of road markings throughout its lifespan and during rainy nights. This standard does not apply to inlaid thermoplastic road marking materials.

Users of the standard include thermoplastic road marking materials manufacturers and suppliers, road contractors, testing laboratories and relevant government agencies.

Comment period: 15 December 2021 to 16 February 2022

(II) Electrical and Electronic

Withdrawal

2. Specification for outlet units for master and community television antenna systems [SS 255:1981 (2012)]

3. Code of practice for the installation of master antennae television systems for the reception of VHF and UHF sound and television broadcasting transmission operating between 5 MHz and 824 MHz [CP 39:1994 (2012)]

These two standards on master antennae television systems are proposed for withdrawal as all free-to-air television transmissions are now broadcast in digital (DVB-T2) television standard, and Singapore has completed the switch-off of all analogue television channels in 2019.

The standards are no longer required and therefore there are no replacements.

Comment period: 3 December 2021 to 4 February 2022

(III) Environment and Resources

New

4. Environmental management – Eco-efficiency assessment of product systems – Principles, requirements and guidelines (Identical adoption of ISO 14045:2012)

This standard describes the principles, requirements and guidelines for eco-efficiency assessment for product systems, including the following:

- Goal and scope definition of the eco-efficiency assessment;

- Environmental assessment;
- Product system value assessment;
- Quantification of eco-efficiency;
- Interpretation (including quality assurance);
- Reporting; and
- Critical review of the eco-efficiency assessment.

Requirements, recommendations and guidelines for specific choices of categories of environmental impact and values are not included. The intended application of the eco-efficiency assessment is considered during the goal and scope definition phase, but the actual use of the results is outside the scope of this standard.

5. Environmental management – Life cycle assessment – Requirements and guidelines
(Identical adoption of ISO 14044:2006, AMD 1:2017 and AMD 2:2020)

This standard specifies requirements and provides guidelines for life cycle assessment (LCA), including the following:

- Definition of the goal and scope of the LCA;
- Life cycle inventory (LCI) analysis phase;
- Life cycle impact assessment (LCIA) phase;
- Life cycle interpretation phase;
- Reporting and critical review of the LCA;
- Limitations of the LCA;
- Relationship between the LCA phases; and
- Conditions for use of value choices and optional elements.

This standard covers LCA and LCI studies.

Confirmation with Amendment

6. Amendment No. 1 to Environmental management – Life cycle assessment – Principles and framework (SS ISO 14040:2017) (Identical adoption of ISO 14040:2006/AMD 1:2020)

This standard will be confirmed with an amendment to update the title of Figure 1 to “Phases of an LCA” and the definitions of the following terms:

- Life cycle;
- System boundary;
- Completeness check;
- Consistency check; and
- Sensitivity check.

Potential users of the series of standards on environmental management include manufacturers and suppliers, academic institutions, consultants, research institutions and relevant government agencies.

The drafts are pending approval from the Technical Committee and will be issued from 15 December 2021 to 16 February 2022.

(IV) Quality and Safety

New

7. Quality requirements for fusion welding of metallic materials

Part 1: Criteria for the selection of the appropriate level of quality requirements (Identical adoption of ISO 3834-1:2021)

This standard specifies a general outline of the ISO 3834 series and criteria to be taken into account for the selection of the appropriate level of quality requirements for fusion welding of metallic materials, among the three levels specified in ISO 3834-2, “Comprehensive quality

requirements”, ISO 3834-3, “Standard quality requirements”, and ISO 3834-4, “Elementary quality requirements”. It is applicable to manufacturing, both in workshops and at field installation sites.

This standard does not specify requirements for a total quality management system (QMS). However, Clause 6 identifies QMS elements where their inclusion complements the ISO 3834 series.

Part 5: Documents with which it is necessary to conform to claim conformity to the quality requirements of SS ISO 3834-2, SS ISO 3834-3 or SS ISO 3834-4 (Identical adoption of ISO 3834-5:2021)

This document specifies the standards, including clauses and subclauses, with which conformity to the requirement of SS ISO 3834-2, SS ISO 3834-3 or SS ISO 3834-4 can be claimed.

NOTE – Parts 2, 3 and 4 of this series on fusion welding have already been adopted as Singapore Standards and are now under publication.

Potential users of the series of standards on fusion welding include testing, inspection and certification bodies, industry associations, professional institutions, academic institutions, building contractors, steel fabricators and manufacturers, suppliers, buyers, service providers, end users, welders, training providers and relevant government agencies.

Comment period: 3 December 2021 to 4 February 2022

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 Proposed New Work Items

(I) Biomedical and Health

1. Assessment of antimicrobial and antiviral protection durability of surface disinfectants and coatings

This standard aims to develop a standardised method to investigate and assess the durability of antimicrobial and antiviral protection of surface disinfectants. It will cover surface disinfectants and self-disinfecting surface coatings applied on hard and non-porous surfaces against a wide range of microbes including bacteria, fungi and viruses.

Potential users of the standard include manufacturers and suppliers of surface disinfectants, testing, inspection and certification bodies, and relevant government agencies.

Comment period: 3 December 2021 to 4 January 2022

(II) Chemical

2. Amendment No. 1 to LNG bunkering – Part 2: Requirements for custody transfer (TR 56-2:2020)

This amendment updates the information on methane number and calculation method of methane number.

It is proposed to replace Annex I with methane number (knock resistance) and Wobbe index (thermal input through a restriction) and to add a new informative Annex J on propane knock index (methane number calculation method), taking reference from the annexes found in ISO 23306:2020, "Specification of liquefied natural gas as a fuel for marine applications".

Those who may be interested in the Amendment include oil majors, LNG bunker suppliers, shipping lines, testing bodies, engine manufacturers, equipment vendors and relevant government agencies.

Comment period: 3 December 2021 to 4 January 2022

(III) Environment and Resources

3. Technical Reference – Environmental management – Life cycle assessment – Data documentation format (Identical adoption of ISO/TS 14048:2002)

This standard provides the requirements and a structure for a data documentation format, to be used for transparent and unambiguous documentation and exchange of LCA and LCI data, thus permitting consistent documentation of data, reporting of data collection, data calculation and data quality, by specifying and structuring relevant information.

The data documentation format specifies requirements on division of data documentation into data fields, each with an explanatory description. The description of each data field is further specified by the structure of the data documentation format.

This standard is applicable to the specification and structuring of questionnaire forms and information systems. It can also be applied to other aspects of the management of environmental data.

This standard does not include requirements on completeness of data documentation. The data documentation format is independent of any software or database platform for implementation.

This standard does not require any specific sequential, graphic or procedural solutions for the presentation or treatment of data, nor does it describe specific modelling methodologies for LCI and LCA data.

Comment period: 3 December 2021 to 4 January 2022

B.2 Review of Singapore Standards

Chemical

Specification for elastomeric seals for joints in pipework and pipelines (SS 270:2015)

This standard specifies the requirements and test methods for solid elastomeric joint seals for use in the jointing of pipes for potable water and drainage.

It does not cover the following:

- Joint seals made from cellular rubber material or with an enclosed void as part of their design;
- Materials for joint seals used in pipelines carrying industrial chemical effluent or hot water; and
- Performance requirements of the finished joint seals, including functional tests on actual sealing systems used with particular pipeline materials.

Users of the standard include testing bodies, consulting engineers, importers, traders, manufacturers, contractors and relevant government agencies.

Comment period: 3 December 2021 to 4 January 2022

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](#).