

Submit Comments

## ENTERPRISE SINGAPORE CALLS FOR PUBLIC COMMENTS – 15 MAY 2018

Under the National Standardisation Programme, public comment is an important stage of standards development where 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 are 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 documents:

Chemical – [paints, varnishes and related materials](#), [bunkering](#) and [bunker mass flow metering](#)

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

Closing date for comments: **16 July 2018**.

To provide comments, please write to: [kay\\_chua@enterprisesg.gov.sg](mailto:kay_chua@enterprisesg.gov.sg).

### **B) Notification of New Work Item Proposals**

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:

Chemical – [energy efficient coatings](#)

Manufacturing – [autonomous vehicles](#)

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

Closing date for comments: **16 June 2018**.

Members of the public are invited to join as standards partners, resource members or co-opted members subject to the approval of relevant committees and working groups.

To comment or to join in the development of standards, please write to: [standards@enterprisesg.gov.sg](mailto:standards@enterprisesg.gov.sg).

### **A) Notification of draft Singapore Standards**

#### **Chemical**

#### **Outcome of review**

#### **1. Methods of test for paints, varnishes and related materials (SS 5 series)**

Fifty parts of SS 5 are being reviewed. This review is targeted for completion in FY 2018.

Users of the SS 5 series standards include test laboratories, paints suppliers and manufacturers, associations of contractors, consultants and architects, and relevant government agencies.

To date, the following parts have been reviewed and the outcome is given as follows:

### **Revisions**

#### **\*Part A1: Sampling** (Identical adoption of ISO 15528:2013)

This standard specifies procedures for the sampling of paints, varnishes and raw materials used in their manufacture. Such products include liquids and materials which, without undergoing chemical modification, are capable of being liquefied when heated up, and powdered, granulated and pasty materials. Samples may be taken from containers, e.g. cans, drums, tanks, tank wagons or ships' tanks, as well as from barrels, sacks, big-bags, silos or silo wagons, or from conveyor belts.

This revision excludes the information on achieving homogeneity of the product to be sampled and merges the sampling procedure for large and small containers.

#### **\*Part B13: Fineness of grind** (Identical adoption of ISO 1524:2013)

This standard specifies a method for determining the fineness of grind of paints, inks and related products by use of a suitable gauge, graduated in micrometres. It is applicable to all types of liquid paints and related products, except products containing pigments in flake form (e.g. glass flakes, micaceous iron oxides, zinc flakes).

This revision excludes the products containing pigments in flake form and revises the figures of a typical gauge.

### **Confirmation without amendment**

#### **Part A2: Examination and preparation of samples for testing**

#### **Part B1: Determination of film thickness**

#### **Part B2: Determination of non-volatile matter**

#### **Part B6: Storage stability (partially filled container)**

#### **Part B11: Determination of viscosity by Ford viscosity cup**

#### **Part B12: Consistency of paints using the Stormer viscometer**

#### **Part B15: Determination of a flash point - Closed cup equilibrium method**

The review outcome of the above standards is to confirm these seven standards without amendments as the contents are up to date and are still relevant to the stakeholders. Hence, there are no changes required to be made.

### **Mature standards**

#### **Part B4: Condition in container**

#### **Part B5: Skinning (partially filled container)**

#### **Part B8: Reducibility and dilution stability**

#### **Part B9: Brushing properties**

The above four standards will be classified as mature standards as there are no foreseeable changes in them. Hence, they will not be reviewed until a request is put forth to do so.

## **Amendments**

### **2. Amendment No. 1 to Technical Reference for bunker mass flow metering (TR 48 : 2015)**

This amendment updates the documentation required to be submitted for mass flow meter requirement (Subclause 6.2.3 of the standard). It also includes the changes to Annex P (Bunker delivery note) to align with the latest sulphur requirements in MARPOL Annex VI.

([Click here to download the amendment.](#))

### **3. Amendment No. 1 to Code of practice for bunkering (SS 600 : 2014)**

This amendment updates Annex G (Example of bunker delivery note) to align with the latest sulphur requirements in MARPOL Annex VI.

([Click here to download the amendment.](#))

Copies of drafts and standards are available at:

#### **\*For drafts (Viewing only)**

Login to Singapore Standards eShop at: <http://www.singaporestandardseshop.sg>

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#### **For Singapore Standards and ISO Standards (Viewing only)**

All public libraries' multimedia stations and on personal internet/mobile devices (e.g. mobile phones, notebooks, tablets) at all public libraries via NLB eDatabases "Singapore and ISO Standards Collection" (refer to [www.nlb.gov.sg/VisitUs.aspx](http://www.nlb.gov.sg/VisitUs.aspx) for address and viewing hours)

#### **For Singapore Standards (Viewing and purchase)**

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#### **Operating Hours:**

Mon to Fri: 9.30 am to 6.00 pm

Closed on Saturdays, Sundays and Public Holidays

**NOTE** – The viewing period of the drafts will expire on the closing of the 2-month public comments. Drafts will no longer be available after this date.

## **B) Notification of New Work Item Proposals**

### **Chemical/Building**

#### **1. Specification for energy efficient coatings for exterior surfaces of buildings and hardscapes**

This standard specifies the quality and performance requirements of the energy-efficient exterior coatings for opaque surfaces of buildings and hardscapes in Singapore. It includes the respective test methods for its quality and performance.

This standard is applicable for new surfaces and re-coating of existing paint work and is also applicable for energy efficient coatings on prefabricated building elements. It excludes coatings on glass and phase change materials.

Potential users of the proposed standard include paint manufacturers, applicators, testing laboratories, architects and materials suppliers as well as related government agencies like the Jurong Town Corporation, National Environment Agency, Building Construction Authority and Housing and Development Board.

### **Transportation/Manufacturing/IT**

#### **2. Technical Reference (TR) for basic behavioural requirements for autonomous vehicle deployment on Singapore public roads**

This TR defines a common set of standards that focus on, but is not limited to:

- conduct of autonomous driving, including vehicle-to-vehicle interactions (AV-AV, AV-Manned Vehicles);
- management of non-transferable rules, e.g. hand signs;
- aids to autonomous driving (e.g. special road signs and markings to augment AV operations).

#### **3. Technical Reference for functional and operational safety requirements for autonomous vehicle deployment on Singapore public roads**

This TR covers:

- system safety, reliability, availability, maintainability and their interactions;
- overall process management of system safety based on the overall lifecycle of the vehicle and on the operational design domain;
- a systematic process for specifying requirements for system safety and demonstrating that these requirements are achieved;
- conflicts between system safety elements to be controlled and managed effectively.

However, it does not cover:

- technical requirements and details;
- technical functional safety targets, quantities, requirements or solutions;
- requirements for ensuring system security (cybersecurity).

#### **4. Technical Reference for cybersecurity requirements for autonomous vehicle deployment on Singapore public roads**

This TR aims to enhance cyber security assurance for the rollout of autonomous vehicle to:

- evaluate and certify autonomous vehicle roadworthiness against cyber security threats (e.g. through blackbox/greybox penetration testing);
- derive potential threat scenarios and potential attack surfaces;
- develop requirements for monitoring and controlling autonomous vehicles.

#### **5. Technical Reference for vehicular data management for autonomous vehicle deployment on Singapore public roads**

This TR defines a common set of standards that focus on, but is not limited to:

- necessity and the possibilities of an event data recorder (EDR or the 'black box');
- ownership and how to avoid usage and manipulation of personal data;
- role of data for investigation and reporting of accidents and claim disputes;
- reasonable and adequate usage of autonomous vehicle data with the aim to continuously improve safety;
- management of dynamic content (e.g. high definition mapping, road traffic information).

Potential users of the TRs include testing, inspection and certification bodies, academia, research institutions, insurance companies and government agencies like the Ministry of Transport, Land Transport Authority, Traffic Police, Singapore Land Authority and Cyber Security Agency.

Copies of the drafts are not available at this juncture.

Submit Comments

## Frequently asked questions about public comment on Singapore Standards:

### 1. What is public comment?

Singapore Standards are established based on an open system which is also in accordance with the World Trade Organisation requirements. These documents are issued as part of a consultation process before any standards are introduced or reviewed. This important stage in the development of Singapore Standards is the Public Comment period. This mechanism helps industry, companies and other stakeholders be aware of forthcoming changes to Singapore Standards and provide 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 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. What happens after I have submitted my comments?

The comments will be channelled to the relevant standards committee for consideration and you will be informed of the outcome of the committee's decision and you may be invited to meet the committee if clarification is required on your feedback.

### 5. Can I view drafts after the public comment period?

Drafts will not be available after the public comment period.

### 6. How do I request for the development of a new standard?

You can propose the development of a new standard [here](#).