NSF International

Joint Committee Correspondence

MEMORANDUM

TO: Joint Committee on Sustainable Carpet

FROM: Jeff Olsen, Chairperson of the Joint Committee

DATE: **June 8, 2018**

SUBJECT: Proposed revision to NSF/ANSI 140 – *Sustainability Assessment for Carpet* (140i27r1)

Draft 1 of NSF/ANSI 140 issue 27 – *Sustainability Assessment for Carpet*, is being forwarded to the Joint Committee for consideration. Please review the changes proposed to this standard and return your ballot by the ballot due date of **June 23, 2018** via the NSF Online Workspace (http://standards.nsf.org).

When adding comments, please identify the section number/name for your comment and add all comments under one comment number where possible. If you need additional space, please upload a word or pdf version of your comments online via the browse function.

Purpose

The purpose of this ballot is to update the following credits 6.2.1, 6.3.5.2.2, 7.2.1, 7.2.4, 9.3, 9.6, 9.10 and Annex B.

Background

These issues were proposed at the Joint Committee Meeting in February 2018.

Public Health Impact

The proposed language will have a positive impact on public health by testing to the most current methodology.

If you have any questions about the technical content of the ballot, you may contact me in care of:

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c/o Secretariat to Joint Committee
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Sustainability assessment for carpet

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6.2.1 Feedstock inventory documentation(prerequisite)

A manufacturer shall receive one point for identifying material composition for components present at 0.1% (1000 parts per million) ~~1% (10 parts per thousand)~~ or greater of the incoming raw materials, including materials identified as persistent, bioaccumulative, and toxic (PBT) as found in Annex B. This shall apply to the incoming raw materials that result in 1% or greater of the final product. Refer to Annex B, Figure B1 for a definition of the boundaries to be included in this inventory.

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6.3.5.2.2 PBTs released as process outputs

A manufacturer shall receive one point for obtaining documentation from first tier suppliers (one step upstream) of the manufacturing facility (see Annex B, Figure B1) demonstrating that PBT chemicals and other chemicals of concern (as defined in Annex B, Table B1) are not released as process outputs (emissions) at the point of manufacture at or above CERCLA reportable quantity (RQ) reporting thresholds. The manufacturer shall document that first tier suppliers do not have PBT emissions at or above the reporting thresholds described in Annex B. This shall apply only to the emissions directly associated with the incoming raw materials that result in 1% or greater of the final product.

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Section 7.2.1

The boundary for this credit shall be Annex B, Figure B1. For the manufacturing facility or facilities only, the manufacturer shall receive one point for documenting 100% of production electrical and thermal energy requirements. Thermal energy is energy such as heat or steam for industrial, commercial, heating, or cooling purposes, including through the sequential use of energy. For onsite-generated energy, the manufacturer shall identify the fuel type (e.g., natural gas, diesel oil, fuel oil, bauxite coal). For offsite-generated energy (e.g., supplied electricity), the manufacturer shall document the percent of energy derived from renewable versus non-renewable sources.

7.2.1 (cont.)

For purposes of documentation, include the type of energy, the amount of energy used in the calendar year or consecutive twelve month period prior to certification, and the conversion factors used to present the energy used in a common unit of measure (e.g. Btus or kWh).

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Table 7.2 – Points awarded for supplier's usage of renewable energy

Percent renewable energy of total energy	Points Awarded

Production	
≥ 1%	**2**
≥~~25~~ 5%	**3**
≥ ~~35~~10%	**4**
≥ ~~50~~15%	**5**
≥ ~~75~~20%	**6**

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7.2.4 credit is revised to limit the scope to documenting a greenhouse gas emissions inventory.

7.2.4 Greenhouse gas emissions inventory (Pre-requisite for Platinum)

The boundary for this credit shall be Annex B, Figure B1. For the manufacturing facility, a manufacturer shall receive one point for documenting ~~reductions in~~ its greenhouse gas emissions inventory for the six Kyoto Protocol gases (CO2, CH4, N2O, HFC, PFC, SF6 and NF3) from Scope 1 and Scope 2 energy use, in accordance with WRI GHG protocol (or other recognized protocols. ~~resulting from energy use over a three-year period of time. The manufacturer shall calculate reductions in greenhouse gas emissions resulting from use of renewable energy and/or from energy reduction.~~

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Table 9.2 is updated to be consistent with changes made to referenced AATCC, ASTM and CRI standards

Table 9.2 – Carpet performance Testing

Characteristic	**Commercial Performance Standard**		**Residential Performance Standard**		Validity of Test Data
	Value	Method	Value	Method	
~~Texture~~ Appearance Retention Rating ~~(TARR)~~	Moderate Traffic: min 2.5 ~~TARR~~ Heavy Traffic: min 3.0 ~~TARR~~ Severe Traffic: min 3.5 ~~TARR~~	ASTM D5252-Hexapod drum at 12000 Cycles ASTM D7330 Assessment of Surface Appearance Change CRI TM ~~101~~ 103 ~~TARR~~			Within the previous 24 months

Tuft Bind	8.0 lbs for loop pile yarns 3.0 lbs for cut pile yarns	ASTM D1335	6.2 lbs for loop pile yarns 3.0 lbs for cut pile yarns	ASTM D1335	Within the previous ~~12~~ 24 months
Delamination Strength	Minimum average value of2.5lbs/in	ASTM D3936	Minimum average value of2.5lbs/in	ASTM D3936	Within the previous ~~12~~ 24 months
Flammability (Pill Test)	Must meet Federal Requirements	DOC FF 1-70	Must meet Federal Requirements	DOC FF 1-70	Within the previous 24 months
Flammability (Radiant Panel)	building/fire code regulations Class 1- minimum 0.45 watts/cm_2 Class 2- minimum 0.22 watts/cm_2	ASTM E648	n/a		Within the previous 24 months
Flammability (Smoke Density)	Must meet local building/fire code regulations Maximum specific optical density not exceeding 450 (flaming exposure)	ASTM E662	n/a		Within the previous 24 months
Electrostatic Propensity	Equal to or less than 3.5kv	AATCC-134, step test			Within the previous ~~12~~ 24 months
Colorfastness to Light	Minimum grade 4 at 40 AFU	AATCC 16E Option 3	Minimum grade 4 at 40 AFU	AATCC 16E Option 3	Within the previous ~~12~~ 24 months

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Section 9.4 and Section 9.10 points allocation are reversed, to give Section 9.4 only one point.

9.4 LCA for product platform undergoing assessment (prerequisite for platinum)
A manufacturer shall receive ~~three~~ one points for completing an actual LCA for the product platform undergoing assessment. The LCA shall be completed in accordance with the ISO standards for life cycle assessment (ISO 14040 – 14048).

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Section 9.6 is amended to harmonize the supplier performance threshold to 70% consistent with Section 6.3.5.2.

9.6 Suppliers' social indicator reporting

A manufacturer shall receive one point for obtaining documentation from a minimum or 70% of first tier suppliers (one step upstream) of the manufacturing facility that report social indicator metrics as shown in Table 9.1. ~~for each manufacturer whose product constitutes at least 1% of the product being evaluated.~~ It is not the intent of this requirement that companies supplying chemicals that end up at de minimis levels in the product being evaluated be contacted and asked for this information. The reporting of employment information required in Table 9.1 shall be made by either a detailed breakdown or general summary of compliance. This shall apply to the incoming raw materials that results in 1% or greater of the final product.

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Section 9.10 and Section 9.4 points allocation are reversed, to give Section 9.10 three points.

9.10 Environmental Product Declarations

The manufacturer shall receive ~~one~~ three points if it completes a publicly available Environmental Product Declaration (EPD) conducted in accordance with ISO 14025 following the requirements on open consultative- based product category rule (PCR). The EPD shall be validated by an independent third party for the product undergoing assessment.

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The recommended change below is to adopt references to lists that will be maintained over time. This approach is consistent with other standards.

Annex B
(Normative)

Table B.1 – Persistent, bioaccumulative, and toxic (PBT) chemicals

A	*International Agency on the Research of Cancer (IARC) Group 1 – Carcinogenic to Humans and Group 2A – Probably Carcinogenic to Humans;*
B	*National Toxicology Program (NTP) – Known Human Carcinogen and Reasonably Anticipated Carcinogenic;*
C	*Occupational Safety and Health Administration (OSHA)n- Regulated Toxic Metal or Carcinogen;*
D	*California Proposition 65 – Known to cause cancer or reproductive toxicity;*
E	*USEPA Toxic Release Inventory (TRI) persistent, bioaccumulative, , and toxic (PBT) chemicals – Known persistent, bioaccumulative, and toxic chemicals and compounds (a subset of the USEPA TRI list of chemicals and compounds); or*
F	*USEPA TRI- Complete USEPA toxic chemical list (including known PBT chemicals and compounds), RCRA Waste Minimization list, the U.S. – Canada Binational list, and the Stockholm Convention POPs list.*

NOTE – The most current version of the above shall be referenced during certification.