NSF Standard(s) Impacted: NSF/ANSI 140 – 2012

Submitted by Matt Van Duinen, Shaw Industries

Background:
The state of sustainability in the marketplace today has shifted towards transparency and disclosure. The LCA credits within the standard are outdated and do not address this trend. A methodology commonly used with sustainability today is Know, Disclose, Assess, and Optimize, and the LCA credits within NSF-140 should follow this methodology.

Recommendation:
Remove sections 6.3.3, 9.4, and 9.10, renumbering sections 6 and 9 accordingly.

Add the following:

5.1.1 Life Cycle Impact Assessment – prerequisite for gold and platinum

A manufacturer shall create an ISO 14040/44 compliant LCA for its product. The boundary for this credit shall be Annex A, Figure A1.

Quantification of the impacts shall be determined according to the methodology from the USEPA’s Tool for the Reduction and Assessment of Chemical and Other Environmental Impacts (TRACI). As the TRACI methodology is periodically updated, applicants should consider using the most recent version of this impact assessment methodology in order to ensure the most accurate life cycle calculations.

5.1.2 Environmental Product Declarations (EPDs)

The manufacturer shall receive XX points if it creates an Environmental Product Declaration (EPD), conducted in accordance with ISO 14025 and following the requirements of a published Product Category Rule (PCR). The EPD shall be validated by an independent third party for the product undergoing assessment and published publicly.

5.1.3 Reduction of LCA Impacts

To earn points under this section, a manufacturer shall compare an LCA of their product platform undergoing assessment to their baseline year which shall be no more than 10 years
old. Points shall be awarded according to table 5.1 if the manufacturer decreases the impact of the product undergoing assessment in at least six of the TRACI methodology impact categories, with global warming potential (GWP) being one of the six.

Table 5.1 – Life Cycle Assessment Reduction Points

<table>
<thead>
<tr>
<th>Percent Reduction in ≥6 impact categories</th>
<th>Points Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>≥10%</td>
<td>XX</td>
</tr>
<tr>
<td>≥20%</td>
<td>XX</td>
</tr>
<tr>
<td>≥30%</td>
<td>XX</td>
</tr>
<tr>
<td>...</td>
<td>...</td>
</tr>
</tbody>
</table>

Ranges can be adjusted according to final decision on points.

**Points/Section explanation:**

In the 2013 version of the standard, there are 24 points awarded to LCA. After acceptance of this proposal, these 24 points can be divvied out accordingly, or decreased/increased as necessary.

If section 5 isn’t appropriate for adding points, suggest adding it as *Section 6.4 – Life Cycle Assessment*. 