**Institution of Mechanical Engineers**  
**Railway Challenge 2018**  
**Clause by Clause Compliance Statement**

This document illustrates how teams might complete the compliance matrix: other formats, for example, company templates, are acceptable.

The purpose of the compliance matrix is:

**For the teams:**  
At an early stage, to help them describe succinctly how they WILL comply with the specification. It is NOT a requirement that this will be submitted.

**For the Judges and scrutineers:**  
At the end, to summarise how they HAVE complied and to check that their Design Challenge report is complete.

The format is very simple - just five columns are required. Don’t be afraid to add more columns if it suits you.

The document can be a spreadsheet or a text document.

<table>
<thead>
<tr>
<th>Spec. clause number</th>
<th>Item</th>
<th>Details</th>
<th>Compliant</th>
<th>Evidence</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>These three columns should be used to reproduce the specification and relevant sections of the rules that detail the requirements to which the teams must comply</td>
<td>Spec. clause number</td>
<td>Item</td>
<td>Details</td>
<td>Compliant</td>
<td>Evidence</td>
</tr>
<tr>
<td>3.3 Maintainability</td>
<td>The Team will demonstrate that all components replaced as part of a planned preventative maintenance programme (Clause 11.2.5 refers) can be replaced without disruption to any other component other than designated access facilities and the immediate connection to interfacing components</td>
<td>Yes</td>
<td>We have identified the key components that need to be maintained. We have removed and reassembled these items to test that they can be accessed without unreasonable disruption to other components. For example the vehicle body has to be removed from the bogie in order to access the motors.</td>
<td>Maintainability: Appendix P</td>
<td></td>
</tr>
</tbody>
</table>

MHD 16th October 2016