1. Scope
   1.1. This document provides specifications for mild carbon steel material with 40 ksi minimum yield strength used for producing load bearing or pressure containing component parts in TAM products.
   1.2. Material specified by this document must be in accordance with NACE MR-0175 (ISO 15156).

2. Acceptable Materials / Chemistry
   2.1. Any carbon steels that fall within 0.12 – 2.00 % carbon content are acceptable as long as the material meets all other requirements of this specification.

3. Mechanical Properties
   3.1. The mechanical properties of this material shall conform to the following requirements:
       3.1.1. 40,000 psi minimum yield strength as determined in accordance with ASTM A370.
       3.1.2. 22 RC maximum hardness as determined in accordance with ASTM E18.
       No other mechanical properties are required by this specification to be reported unless otherwise specified.

4. Weldability
   4.1. Material meeting the requirements of this specification must be classified as P 1 by ASME BPVC-IX.

5. Dimensional Tolerances
   5.1. Unless otherwise specified, dimensional tolerances shall comply with the following:
       5.1.1. Plates shall comply with the dimensional requirements of ASTM A568.
       5.1.2. Tubes shall comply with the dimensional requirements of ASTM A450.
       5.1.3. Bars shall comply with the dimensional requirements of ASTM A29.
       5.1.4. Shapes shall comply with the dimensional requirements of ASTM A6.

6. Reports
   6.1. Material ordered to this specification shall be accompanied by a Material Test Report. Report shall contain the following minimum information which will be subject to inspection upon receipt:
       6.1.1. Statement of material type/grade
       6.1.2. Chemical analysis that shows the carbon content
       6.1.3. Material yield strength
       6.1.4. Material hardness
       6.1.5. Material Identification Number

7. Material Acceptance
   7.1. All requirements of this specification are subject to verification at the discretion of TAM International.
   7.2. TAM Engineering Manager or designee is ultimately responsible for accepting or rejecting material that does not conform to any portion of this specification.
TAM International, Inc.

Mild Carbon Steel Material for Load Bearing or Pressure Containing Parts

Specification: ESMA-1001
Revision Level: A

Reviewed By: Mark Wyatt, Engineering Manager
Approved By: Greg Fletcher, Quality Manager

<table>
<thead>
<tr>
<th>Rev</th>
<th>Date</th>
<th>Description</th>
<th>Prepared By</th>
<th>Reviewed By / Approved By</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>02/09/15</td>
<td>New Document</td>
<td>M. Wyatt</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>