2017 API/AGA Meeting

TASK GROUP Table 1 Meeting – Report Out
January 19th, 2017 (8 to 9 AM)
Task Group Table 1 – Meeting Summary

* Task Group Goal and Purpose – Update/Revise Table 1 of Section 5 for 22 Code Edition

* Short meeting (1/19/2017) due to limit participation (2+), due to competing Subgroup meetings.

* Task Group Chair also met with Procedure and Welding Qualification Subcommittee during their meeting and provided summary of Revision of Table 1 and obtained their input and comments.
**KEY ISSUES/Discussions**

* Table 1 of API 1104 does not specify electrode suffixes for AWS A5.5 specification electrodes, some of which can be very highly alloyed. (Note Addendum 2 (2016) addressed this issue in written form without direct revision to the Table)
  * Addendum 2 to be used for Update of Table 1

* In addition to SMAW process AWS Classification Electrodes to be updated, other Classifications of Welding Filler metals/Electrodes to be updated in Table.

* All “G” Classification Electrodes to be removed from Table 1.

* Table 1 current applies to base materials of less than X65 grade, if this maximum grade strength is changed – Consider changing Table maximum's to match.
KEY ISSUES/Discussions

Table 1 applies to both Section 5 (manual/semi-automatic) and Section 12 (Machine Welding with Filler metal).

Consideration to Split Table in Two for use, as applicable, in both, however some “Groups” in table are common to both Section 5 and Section 12.

Consideration, based on recent information on base metal (actual yield strength) over matching, will be given to dividing some groups into Subgroups based on Tensile Strength.

Will focus on keeping table data as simple as possible and consideration of changes needed for 22nd edition as priority and others than may be tabled to further editions.
KEY ISSUES/Discussions

Initial Draft of Table 1 revision has begun and reviewed at Task Group meeting and with Subcommittee on Welding Procedure and Performance Qualification. (See attached abbreviated initial draft)
### Table 1 – Filler Metal Groups

<table>
<thead>
<tr>
<th>Group</th>
<th>Welding Process</th>
<th>AWS Specification</th>
<th>AWS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SMAW (Cellulosic)</td>
<td>A5.1</td>
<td>E6010, E6011</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A5.5</td>
<td>E7010, E7011, E7010-A1, E7010-P1, E7011-A1</td>
</tr>
<tr>
<td>2</td>
<td>SMAW (Cellulosic)</td>
<td>A5.5</td>
<td>E8010, E8011, E8010-P1, E8010-P2, E9010, E9010-P2</td>
</tr>
<tr>
<td>3</td>
<td>SMAW (Low Hydrogen)</td>
<td>A5.1, A5.5</td>
<td>E6018, E7015, E7016, E7018, E7018M, E7016-1, E7018-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>E8015, E8016, E8018, E8045, E9018, E9045</td>
</tr>
<tr>
<td>4*</td>
<td>SAW</td>
<td>A5.17, A5.22</td>
<td>F6XX-EXXX, F7XX-EL8XXX, EL8K, EL12, EN5K, EM12K, EM13K, EM15K</td>
</tr>
</tbody>
</table>

(Could add A5.23, but only for specific Electrode classes of FA1, EA2, EA3K, ENI1, ENI1K, ENI2, ENI3, ENI4, ENI5, ENI6 of F7 and F8 strength)

("X" is a letter or number designated by the AWS filler metal specification.)
Plan/Scheduling to have WebEx Task Group meetings every approximately two (2) weeks starting in early February to Update Table 1 for incorporated into 22\textsuperscript{nd} Draft within next 3 months.

Working with Filler Metal Task Group of Section 5 and 12 to keep these Task Group and Subcommittees involved and informed. This is by Chair (Jon Lee) of Table 1 Task Group joining the Filler Metal Task Group of these Subcommittees

Will confirm by email the task group members from last year that want to continue to be involved and others are welcome to join. Visitors to Web-Ex task group meetings are welcome and encouraged to be task group members.

In addition need Task Group Table 1 Co-Chair