## Proposal: 10-05: 650-538, Flush-Type Cleanout Reinforcement

<table>
<thead>
<tr>
<th>Voter</th>
<th>Company</th>
<th>Comments</th>
<th>Affirmative</th>
<th>Negative</th>
<th>Abstain</th>
<th>Did Not Vote</th>
</tr>
</thead>
<tbody>
<tr>
<td>134629 Nelson Acosta</td>
<td>HMT Inspection</td>
<td>Yes</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>131617 Joel Andreani</td>
<td>Equity Engineering Group, Inc., The</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>38921 Robert Annett</td>
<td>Alyeska Pipeline</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>73074 Ronald Bailey</td>
<td>American Tank &amp; Vessel, Inc.</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>136219 Mark Baker</td>
<td>Baker Consulting Group, Inc.</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>142888 Chris Bashor</td>
<td>Minnesota Pollution Control Agency</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>134681 Ernie Blanchard</td>
<td>IMC-Phosphates</td>
<td>Yes</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>109375 Jerry Boldra</td>
<td>DJA Inspection Services</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>22200 Dan Boley</td>
<td>Kinder Morgan</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>134782 Steve Caruthers</td>
<td>Tank Consultants, Inc.</td>
<td>No</td>
<td></td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>7127 Earl Crochet</td>
<td>ExxonMobil</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>142685 Domingo de Para</td>
<td>BP p.l.c. Whiting Refinery</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>133403 Jeffrey DeArmond</td>
<td>Terasen Pipelines (USA) Inc.</td>
<td>No</td>
<td></td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>146748 Terry Delong</td>
<td>Matrix Service Company</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>135965 Kenneth Erdmann</td>
<td>Dow Chemical Company</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>105011 David Flight</td>
<td>Marathon Ashland Petroleum LLC</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>134870 Laurence Foster</td>
<td>Colonial Pipeline Company</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>134880 John Fumbanks</td>
<td>TGB Partnership</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>135014 John Lieb</td>
<td>Tank Industry Consultants, Inc.</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>136274 Thomas Lorentz</td>
<td>AEC Engineering, Inc.</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>135072 Francis Maitland</td>
<td>Quense LLC</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Proposal:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>78399 David Martin</td>
<td>Conservatek Industries, Inc.</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>113545 James McBride</td>
<td>Petrex, Inc.</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>139045 Craig Meier</td>
<td>ConocoPhillips</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>137255 Carl Mikkola</td>
<td>Enbridge Energy Partners, L.P.</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>131185 Douglas Miller</td>
<td>Chicago Bridge &amp; Iron Company (CB&amp;I)</td>
<td>Yes</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>69609 Dhana Mistry</td>
<td>TIW Steel Platework</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>83736 John Mooney</td>
<td></td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>92212 George Morovich</td>
<td>TEMCOR</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>136286 Philip Myers</td>
<td>ChevronTexaco Corporation</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>132210 David Nasab</td>
<td>Kellogg Brown &amp; Root</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>82544 John Oleyar</td>
<td>HMT, Inc.</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5193 Richard Pinegar</td>
<td>Cargill Inc.</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>102412 Roy Ralph</td>
<td>Petro-Canada</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>135169 Michael Richardson</td>
<td>International Paper</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>73744 Bruce Roberts</td>
<td></td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>101360 Marilyn Shores</td>
<td>Sunoco Logistics</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>126019 Larry Speaks</td>
<td>Mass Technology Corporation</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>134314 Teare Taylor</td>
<td>Flint Hills Resources</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>134325 Donald Thain</td>
<td>Shell Global Solutions (US) Inc.</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>145034 Leith Watkins</td>
<td>Explorer Pipeline Company</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>145896 Alan Watson</td>
<td>A.R. Watson, USA</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>132209 Richard Whipple</td>
<td>Fluor, Inc.</td>
<td>No</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
API Ballot Summary Sheet
3/22/2005

Ballot: 10-05: 650-538, Flush-Type Cleanout Reinforcement

Start Date: 1/24/05                  Closing Date: 3/14/05

Proposal:

AMS ID: 612
Associate: Roland Goodman
Coordinator: Valeen Young

Balloting Totals:

<table>
<thead>
<tr>
<th>Affirmative</th>
<th>Negative</th>
<th>Abstain</th>
<th>Did Not Vote</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>1</td>
<td>1</td>
<td>11</td>
</tr>
</tbody>
</table>

Total Responses: 38
Total Ballots: 49
Response Rate: 73% Must be > 50%
Approval Rate: 97% Must be > 67%
Consensus: YES
<table>
<thead>
<tr>
<th>#</th>
<th>Voter/Commenter</th>
<th>Company</th>
<th>Section No. (e.g. 3.1)</th>
<th>Type of comment</th>
<th>Comment (justification for change)</th>
<th>Proposed Change</th>
<th>Comment Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Larry Hiner</td>
<td>Chicago Bridge &amp; Iron Company(CB&amp;I)</td>
<td></td>
<td>Technical</td>
<td>See Doug Miller's negative and positive comments</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Douglas Miller</td>
<td>Chicago Bridge &amp; Iron Company(CB&amp;I)</td>
<td>3.7.7.4</td>
<td>Technical</td>
<td>&quot;t&quot; definition. API 650 3.7.2 requires area replacement without regard for the shell joint efficiency. Joint efficiency should not be used for FTCO unless the general area replacement rules for openings are first changed. Also, the new wording for corrosion allowance (CA) is incorrect, CA is never required to be included in the calculated required reinforcement area.</td>
<td>Do not change definition of &quot;t&quot;</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Ernie Blanchard</td>
<td>IMC-Phosphates</td>
<td>Entire</td>
<td>Editorial</td>
<td>The link to the ballot was not included.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Douglas Miller</td>
<td>Chicago Bridge &amp; Iron Company(CB&amp;I)</td>
<td>Impact</td>
<td>Editorial</td>
<td>This change, as proposed, would reduce the reinforcement required for appendix A and appendix S tanks built with a JE less than 1.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Nelson Acosta</td>
<td>HMT Inspection</td>
<td>Paras. 3.7.7.4, 3.7.7.5, and 3.7.8.4</td>
<td>Editorial</td>
<td>In Para. 3.7.7.4, under definition of term &quot;t&quot;, add the word &quot;all&quot; inside the parenthesis just in front of &quot;joint&quot;. Do this also in Para. 3.7.7.5 and Para. 3.7.8.4 wherever the parenthesis appears. Also, in these last 2 paragraphs, the term &quot;Hydrostatic test Conditions&quot; should have the &quot;Test&quot; capitalized as well.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>