**Date of Issue:** September 2005
**Affected Publication:** API *Manual of Petroleum Measurement Standards*, Chapter 3—*Tank Gauging*, Section 6—*Measurement of Liquid Hydrocarbons by Hybrid Tank Measurement Systems,* First Edition, February 2001

## ERRATA

*Page iv, Contents 9.3, replace:*

9.3 Verification fo Hybrid Processor Calculations

*with*

9.3 Verification of Hybrid Processor Calculations

*Page v, Contents, add:*

APPENDIX C ILLUSTRATIVE EXAMPLE.....25

*Page 1, Title/main header, replace:*

Chapter 3—Tank Gauging

*with:*

Manual of Petroleum Measurement Standards

Chapter 3—Tank Gauging

Section 6—Measurement of Liquid Hydrocarbons by Hybrid Tank Measurement

*Page 3,Table 1—Recommended Maximum ATG Tolerance, replace:*

*[Installed Accuracy for custody transfer application, based on volume shown as only plus:]*

+ 4 mm

*with:*

± 4 mm

*Page 3, Table 1—Recommended Maximum ATG Tolerance, replace:*

*[Installed Accuracy for inventory control application, based on volume shown as only plus:]*

+ 12 mm

*with:*

± 12 mm

*Page 10, 10.4.3, replace:*

Pressure Sensor(s)

*with:*

c. Pressure Sensor(s)

*Page 10, 10.4.3, replace:*

c. Product Density

*with:*

d. Product Density

*Page 15, Appendix A.3, replace:*

*[Within the equation for the value of $D_{obs}$]*

$g \times (D_v + D_a)$

*with:*

$g \times (D_v - D_a)$

*Page 24, Appendix B.6, Table B 6.3, replace:*

Basis: Product temperature = 15 ºC.

*with:*

Basis: Product temperature = 25 ºC.

*Page 5, 7.1, third paragraph, replace:*

Errors in the measured level have little effect on the computed mass because of error cancellation in the product of volume and density.

*with:*

Errors in the measured level have little effect on the computed mass because of error cancellation in the arithmetical product of volume and density.

*Page 15, Appendix A.3, replace:*

Liquid head pressure= $g \times$ (L – Z) x $D_{obs}$ (at $P$1 elevation)

In tank vapor head= $g \times$ [Ht – (L – Z)] x Dv(at liquid surface)

Ambient air head= $g \times$ Ht x Da(at $P$1 elevation)

*with:*

| | | | |
|---|---|---|---|
| Liquid head pressure | = | $g \times (L - Z) \times D_{obs}$ | (at $P$1 elevation) |
| In tank vapor head | = | $g \times [H_t - (L - Z)] \times D_v$ | (at liquid surface) |
| Ambient air head | = | $g \times H_t \times D_a$ | (at $P$1 elevation) |

*Page 15,Appendix A.3, replace:*

*[Iin parenthetical remark for the explanation of "Z"]*

See Figure A1

*with:*

See Figure A-1

*Page 18, Appendix B.1, replace:*

*[In the equation for UP1-total]*

$U_{P1\ -\ \text{linearity}}$

*with:*

$U_{P1\text{-zero}}$

*The equation should read:*

$U_{P1\text{-total}} = U_{P1\text{-zero}} + \{g(L - Z)(D - D_v) + P3_{\max}\}\ U_{P1\text{-linearity}}$