

Agenda Item:		650-1056
Title:	Add additional Automatic Level Gauge references in Annex C,	
Date:	1/7/2019	
Contact:	Name:	DJ Berry
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Purpose:	Provide additional options for Automatic Level Gauges.	
Source:	Automatic Level Gauges - API650 Annex C.3.16.4 a), Ref INQ-650-???	
Revision:	3	
Impact:	Little to none and could provide alternatives should there be any.	
Rationale:	As currently worded, API-650, Annex C.3.16.4 a) gives two options for automatic level gauges. The recommendation is to add an additional comment(s) if required to show there are additional options for Automatic Level Gauges. At the end of a) there is a statement that says “unless otherwise specified on the Data Sheet, Table 4” and this could cover the additional Automatic Level Gauges.	
KEY:	Proposed changes are in red font. Deletions are shown as strikethrough.	
Proposal:	<p>C.3.16.4 Automatic Level Gauge</p> <p>a) Tanks shall have a ground-level reading, automatic float-level gauge, unless otherwise specified on the Data Sheet, Table 4.</p> <p>b a) Access for maintenance and repair shall be considered.</p> <p>e b) Level gauge shall be located such that the float well is away from any appurtenances that produce <u>with consideration to avoid</u> turbulence.</p> <p>d c) The bottom of the float well shall be approximately 150 mm (6 in.) above the tank bottom when the floating roof is at its lowest position unless otherwise specified by the Purchaser.</p> <p>e d) Gauge float wells shall be equipped with a gasketed cover that is not bolted closed <u>unless required by Purchaser</u>. See C.1.3 regarding Purchaser specification of jurisdictional requirements.</p> <p>It was agreed in the SCAST Design (Fall 2017) to move to the requirement for level gauges to main body to align with Annex L, Line item 20 which allows the client to determine if they want level gauge</p> <p>Add New Section 5.8.11.5</p> <p>5.8.11.5 Tanks shall have a level-gauge/measurement system, unless otherwise specified on the Tank Data Sheet, Line Item 20. If required, Purchaser to shall specify type of measurement system desired.</p> <p>Clean version</p> <p><u>5.8.11.5 Tanks shall have a measurement system, unless otherwise specified on the Tank Data Sheet, Line Item 20. Purchaser shall specify type of measurement system required.</u></p>	

Nothing should be changed in H.5.7

H.5.7 Gauging and Sampling Devices

When specified by the Purchaser, the fixed roof and the internal floating roof shall be provided with and/or accommodate gauging and sampling devices. Sampling devices on the deck of the floating roof shall be installed beneath the fixed-roof hatch (as specified for this purpose) and, unless designed as a gauge pole (extending up to the fixed roof), shall have a funneled (tapered) cover to facilitate use from the roof of the tank. All such devices on the floating roof shall be installed within the plumbness tolerance of H.4.5. See C.3.14 for additional requirements applicable to gauge wells and poles.

ANNEX L

20. Tank Measurement System

— Required? (Yes/No): ~~Examples are float gauge, differential pressure level indicator, level alarm, radar, and level gauge.~~

~~— Examples are Type:~~ float gauge, differential pressure level indicator, level alarm, radar, ~~and~~ level gauge and/or other_____.

— Remote Capability Required? (Yes/No): Indicate whether level measurements are required to be relayed to remote control stations.

— By*: Designate the provider of the measurement system.

— Per Specification*: Refer to supplemental specification.

In the body of the API Std 650 Storage Tank Data sheet (Page 3 of 8)

20. Tank Measurement System: Required? Yes No

Type: float gauge, differential pressure level indicator, level alarm, radar, level gauge and/or other_____.

Remote Capability Required? Yes No

By:* _____

Per Spec.* _____