

SGD Inquiry Ballot Spring 2022

Inquiry Number	INQ-650-D144
Date submitted	1/27/2022
Publication Info:	650
Section Referenced:	5.8 and 5.9
Subject:	Permanent attachments in relation to shell joints
Background:	5.8.1.1.a - states a wind girder is a Permanent attachment. (Unless installed above the maximum liquid level). 5.8.1.2.a - states spacing requirements for permanent attachments (wind girders) in relation to horizontal and vertical shell joints, of certain material groups. (unless installed above the maximum liquid level, in which case no spacing requirements would apply.). 5.9 - Heading defines Top and Intermediate Stiffening Rings to be same as (Wind girders). Again, we learned in 5.8.1.1.a that a Wind girder is a permanent attachment. (unless installed above the maximum liquid level) . 5.9.5 - Heading is "Top Wind Girder". But through out 5.9.5 section which includes 5.9.5.4, & 5.9.5.5 the word "Top-stiffening ring or Stiffening ring" is used in regards to Wind girders. 5.9.3.3 - Conflicts with comments made in 5.8.1.2.a Because it does not address groups of materials. RECOMMEDED WORDING: In my opinion section 5.9.3.3 should be revised to include the following, "Welds joining stiffening rings to the tank shell may cross vertical tank seam welds. Any splice weld in the ring shall be located a minimum of 6" from any vertical shell weld, when stiffening rings are made to shell courses of material Group IV, IVA, V, or VI. Stiffening rings may also cross vertical tank seam welds with the use of coping (rat-hole) of the stiffening ring at the vertical tank seam. Where the coping method is used, the required section modulus of the stiffening ring and weld spacing must be maintained."
Question:	In regards to paragraph 5.9.3.3 of API 650, does weld spacing requirements apply to permanent attachments (Wind girders / Stiffening Rings) if the shell material is in groups I-III A?
Ballot question	Q1) In regards to paragraph 5.9.3.3 of API 650, does weld spacing requirements apply to permanent attachments (Wind girders / Stiffening Rings) if the shell material is in groups I-III A?
Draft reply	A1) No, weld spacing of permanent attachments applies to shell material Group IV, IVA, V, or VI.
Need agenda item?	Yes to address terminology issues.