

Agenda Item 620-2062

Title: Reiterate the Spot RT Exemption in 7.17.2.1

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Revision: 0

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Purpose: Provide clarity that the low stress design exemption for spot RT from 5.26.6 is applicable in 7.17.2.1.

Source: Public Service Commission of Wisconsin question on RT requirements for a warm vapor container.

Impact: None

Rationale: The phrasing of 7.17.2.1 can misconstrue the fact that spot RT requirements are exempt when the tension stress is less than 10% of the minimum tensile strength of the material.

Reference Sections :

5.26.4.2 Main joints (all longitudinal and circumferential joints in the tank wall or meridional and latitudinal joints in walls of double curvature) are of the butt-welded type except for nozzle, manhole, and support attachment welds to the tank wall, which need not be of the butt-welded type.

5.26.6 Exemptions

Spot or full examination is not mandatory on tank bottoms that are uniformly supported throughout (for example, concrete slab or compacted sand) or on components that are not subject to tension stresses perpendicular to the welded joint greater than 0.1 times the minimum tensile strength of the material. The stress criteria, when applied to the tank walls, apply independently to longitudinal welds in a tank wall course and circumferential welds between tank wall courses (or meridional and latitudinal welds in walls of double curvature).

Proposed Changes :

7.17.2 Spot Examination of Welded Joints

7.17.2.1 For all butt-welded main joints (see 5.26.4.2) that are not completely examined, spot examination is mandatory and shall be done according to the procedure and standards of 7.15.6 and 7.17.4, except roof joints exempted by Table 5-2 [or main joints exempted by 5.26.6.](#)