API 521 8th Edition Ballot

PRD Tail Pipes
(Work Item 20)

Instructions to Voters/Commenters

- Please limit your comments to the red- or blue- lined portions of the ballot only. Note that red indicates modifications to the existing wording, whereas blue indicates new text.
- If you are voting negative with multiple comments, please indicate which comment(s) is the reason for your negative vote, otherwise API's balloting system will categorize all of your comments as negative.

Thanks to Craig Powers and the work group for their efforts.

Melissa Marashi (Chevron)
David Fenton (ExxonMobil)

API 521 Task Force Chairs

API STD 521 8th Edition Proposed Language for Ballot

5.8.2 Formation of Flammable Mixtures

5.8.2.1 General

~~The intent of 5.8.2 is to address design issues for individual PRD tail pipes that vent directly to atmosphere.~~ Section 5.8.2 may be applied to individual PRD tail pipes that vent directly to atmosphere or atmospheric vent stacks shared by multiple PRDs. When applying the guidance in 5.8.2 to the design of a vent stack shared by multiple PRDs, credible release scenarios involving subsets of the PRDs tied into the common stack should be confirmed to have sufficient exit velocities to provide adequate dispersion.

To evaluate the potential hazards of flammable mixtures that result from atmospheric discharge of hydrocarbons, the physical state of the released material is of primary importance, for example, the behavior of a vapor emission is entirely different from that of a liquid release. Between these two extremes are situations involving liquid-vapor mixtures in which mists or sprays are formed. Vapors, mists, and liquids each introduce special considerations in analyzing the risk associated with atmospheric relief.