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Case Study: Apparent & Real Limits to Replacement of Tank Bottoms

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Abstract

Atmospheric storage tanks regularly need to be rehabilitated when the shell experiences excessive settlement or corrosion.

A case study will be presented of a project which originally intended to replace the bottom course of the tank in order to ostensibly meet design requirements stipulated by the Standard.

Expert review of the Standard and evaluation of the engineering motivation for the provisions in the standard demonstrated that a more economical choice was available. The service life of the tank would be preserved and expenditures for the tank rehabilitation minimized.