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Process Vessel Internal Corrosion Management Solution with Organic Coating

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There is greater focus and demand for coatings to withstand extreme environments and protect vessel and pipelines from corrosion and wear. New oil and gas developments are seeing higher temperature environments. The operating conditions introduce new challenges and require increasingly advanced and innovative coating technologies for internal vessel / pipeline corrosion protection, and resistance to erosion.

This paper aims to present the standard requirement and test criteria to prequalify internal organic coating for Process Vessels which are subjected to corrosion/erosion.

The organic composite coating shall be tested in the most severe Hydrocarbon services requirement such as Pressure cycle, High temperature immersion, Thermal shock,.etc.

The organic composite coating has been considered as the cost-effective protection layer for Vessels / Pipeline rather than using expensive Metal Alloy to extend services life of the facilities.