A Systematic Nine-Step Framework for Facilities Integrity Management Program (FIMP) Development Implementation

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Introduction: This paper addresses the challenges in developing and implementing a Facilities Integrity Management Program (FIMP) due to the diverse and non-uniform nature of facility assets with varying life cycles, contrasting with the more uniform assets and clear regulations of pipeline integrity management programs.

Methods: We present a systematic nine-step framework that guides the entire life cycle of facility assets, from corporate policy setting to performance monitoring, with a special focus on inspection, testing, and maintenance challenges.

Results: The framework provides pragmatic guidance for better integrity management and regulatory compliance, particularly addressing the inspection and testing challenges associated with process piping, including insulated, elevated, and limited inspection space piping.

Conclusions: The proposed framework aids in overcoming the disparate nature of facility assets, ensuring thorough integrity management and adherence to regulatory standards. The use of specialized in-line inspection (ILI) tools for process piping is highlighted as a key component in addressing inspection challenges.

Keywords: Facility Integrity Management, FIMP, Inspection Challenges, Process Piping, Regulatory Compliance, Asset Life Cycle, In-Line Inspection (ILI) Tools.

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