



*Brock Trotter Chemical Engineer / Market Analyst, PEMY Consulting, LLC*

Tank owners and companies have numerous incentives to extend the longevity of their tank assets, reduce downtime, ensure personnel safety and protection of the environment and public interests.

Storage tanks are expensive structures (often with large quantities of hazardous materials in them) that deteriorate over the course of their life cycle. In some instances, tanks are removed from service unnecessarily or prematurely, wasting time and money. Worse, the premature outage works to unnecessarily drain resources from important corporate goals.

Tank engineering analysts and consultants can provide tank facility owners and operators with the confidence and assurance that their tank assets will remain operable, safe and incident free even when undergoing the relentless ravages of age-related deterioration. Some common problems associated with tank life cycle management



include: deferral of internal inspections, settlement, project prioritisation, tank calibration, weld cracking, brittle fracture, corrosion, hurricane preparedness, seismic vulnerability, overfills, piping issues, risk-based inspections, risk reduction projects, fire scenarios, and more. These issues are best managed by understanding

key management objectives such as the design life of the tank, its importance, the client's tolerable risk criteria, the impact that an incident can have on the client's reputation, financial objectives and so on.

Once these high-level issues are identified and understood, then engineering analysis can provide the information needed about potential failure modes under consideration while aligning with the owner/operators' goals. Each relevant failure mode should be approached individually to develop a robust defence system for tank assets consistent with corporate objectives.

Tank consulting groups composed of experts from a variety of engineering and business management disciplines (mechanical, structural, chemical, environmental, statistical, business financial and geotechnical) can provide companies with needed analyses that can prevent

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