

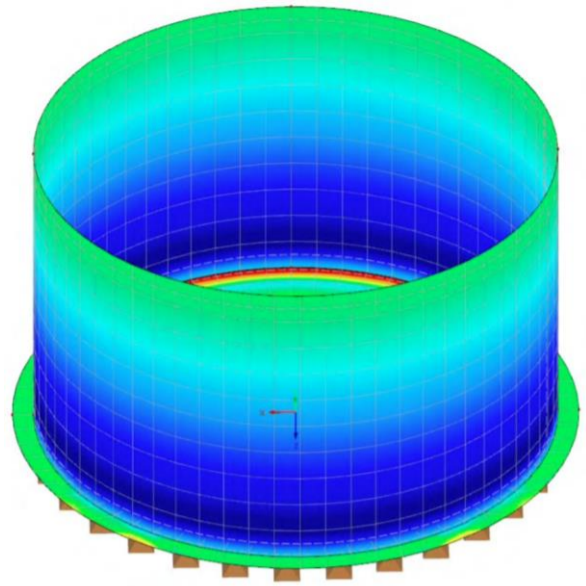
Case Study

REVOLUTIONISING TANK INTEGRITY MANAGEMENT

AIE-CS-24-005



Client: Gold Mine
Industry: Mining and Metals
Region: Africa
AIE Solution: Veracity Inspection, Veracity RBI, Veracity Anomaly and Veracity CCM



CHALLENGE

Our client approached us with a challenge surrounding the integrity management of their tanks. They were grappling with issues across various stages, from design and construction to ongoing operation, inspection, maintenance, and planning. Recognizing the critical importance of enhancing the efficiency and safety of their tank assets, they sought out our expertise at AIE for assistance.

While storage tanks may appear static, the reality is quite dynamic. Insufficient maintenance and management can lead to a host of risks including revenue loss, unexpected shutdowns, environmental harm, and safety concerns. Moreover, the complexities are exacerbated by factors such as ageing infrastructure, product life cycles, corrosion, and environmental wear and tear.

SOLUTION

AIE proposed a comprehensive Tank Integrity Management approach that involves assessing all aspects of the tanks' lifecycle. Veracity Software Suite was utilised to process the tanks data as the software automates the integration between all elements of tank's life cycle.

The comprehensive needs of tank maintenance and safety were addressed through a series of crucial steps. Firstly, AIE prepared inspection scopes to guarantee a comprehensive assessment of tank conditions.

Additionally, Written Scheme of Examinations (WSEs) were prepared to outline specific tasks and responsibilities. The assessment of wind loading allowed AIE to understand environmental impacts and ensure structural stability. Finally, the development and execution of repair scopes addressed identified issues promptly and effectively. Through these systematic measures, the longevity and safety of tanks were assured with a disciplined and methodical approach.

OUTCOME

Veracity Software's implementation resulted in a streamlined approach, reducing the arduous and time-consuming nature of tank integrity management. This enhancement led to a remarkable increase in efficiency within the client's operational processes.

VALUE REALISED



Increased the efficiency of the clients' tank integrity management, minimising operational downtime and optimising service time.



The implementation reduced the risks of unplanned shutdowns, lowering associated revenue loss by 27% and environmental impact.



Timely assessment and instant feedback of historical data through Veracity Software, contributing to informed decision making.