

Structural Integrity Assessment of Mineral Processing Plants and Mobile Equipment



A significant number of mineral processing plants operating in the world today were commissioned more than 20 years ago. Many of those plants have been modified or repaired repeatedly in that period. Some plants are now required to operate at higher utilisation. Plant operational life may have been extended in many cases.

Various age-related issues including corrosion, accidental damage, metal fatigue, overloading, sub-optimal repairs and modifications can all affect the performance, load carrying capacity, stability and safety of assets which are usually critical to production.

Failure of structures will invariably result in compromised production and safety.

BMT WBM has significant experience conducting independent condition assessments of plant structures, machinery, power and control systems for mineral process plants, materials handling systems, and the associated infrastructure including surface mining and underground operations.

BMT WBM deploys professionally qualified engineers, who have had experience not only in condition assessment of similar plant, but additionally in design, remedial work, troubleshooting and failure analysis. Further, BMT WBM is able to complement an assessment with preparation of technical work scope packages covering the findings, which will assist our customers in the subsequent task of remedial actions.

BMT WBM has developed a customised database system for recording defect locations, remedial works and repair priorities.

