



**BUREAU
VERITAS**

Bureau Veritas **Services**

STRUCTURAL INSPECTION AND MAINTENANCE MANAGEMENT

Identification, assessment and management of the risk of structural degradation and failure.

BUSINESS CHALLENGE

A structural inspection and maintenance management programme (SIMM) ensures that physical assets are sustainably managed throughout their life cycle. It is however not only concerned with reduction of operating costs but also the safety of employees working in these facilities. SIMM accurately assesses the condition of critical structures and recommends appropriate management strategies.

SOLUTION

What are SIMM Services?

These services combine engineering activities such as visual inspections, testing and calculations to estimate the condition of a structure.

What are the key benefits?

- Comply with statutory duty
- Compliance with the Occupational Health and Safety Act 1993 and subsequent amendment GNR.1010 of 18 July 2003 which requires the periodic inspection of all existing buildings by a competent person.
- Safety of employees and the public
- Reducing the risk of unplanned downtime of a structure



APPROACH

At Bureau Veritas, our tried and tested approach to structural risk assessment is seen as an essential part of asset integrity management.

A structural inspection consists of the following steps

- Study the building plans provided by the owner in order to understand the structural system, identify crucial areas for inspection based on considerations such as (not limited to) high stress-, corrosive-, obscured areas; identify imposed loads and verify unauthorised additions or alternations;
- Conduct a visual inspection of the building to identify defects, structural distress and deformation and signs of material deterioration and imposed loading;
- If there are no signs of deterioration and defects a report is issued, otherwise remedial action is recommended.



SERVICES

- Inspection of concrete, masonry, steel and timber structures
- Structural Condition Report
- Maintenance and repair Scope of Work definition and associated cost estimation
- Oversight during repair and maintenance process
- Confirmation of maintenance and repair work done to specification

RELATED SERVICES

- Failure Analysis;
- Reliability Studies; and
- Fitness for Service Assessments

INDUSTRIES

- Oil and Gas
- Chemical and petrochemical
- Mining
- Buildings and Infrastructure
- Power and Utilities
- Agriculture
- Processing/manufacturing industry

CONTACT

For details about this service, please contact Bureau Veritas:

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FOR MORE INFORMATION

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