

Case Study



DELIVERING CRITICAL STABILITY TESTING FOR A MAJOR ELECTRICITY INFRASTRUCTURE SUPPLIER: STABILITY TESTING

Client: Major Electricity Infrastructure Supplier

1. Background

[CMP Engineers](#) partnered with a major electricity infrastructure supplier to deliver stability testing and support a safer, more reliable long-term fleet maintenance strategy. The client operates a large fleet of specialised vehicles used to maintain essential electricity infrastructure.

To keep these assets operating safely and efficiently, the fleet requires disciplined maintenance, major inspections, and structured testing throughout its lifecycle. These major inspections must satisfy a range of regulatory, engineering, and operational requirements.

The client needed an approach that aligned with Australian Standards and OEM requirements while preserving the long-term value of critical assets. The objective was clear: maintain a fleet that is safe, dependable, and cost-effective to operate over the long term.

2. Challenge

The challenge was to interpret and apply the combined requirements of Australian Standards and OEM guidance across a complex fleet environment. Safety was non-negotiable, demanding a testing and inspection methodology with no compromise on risk management.

At the same time, the client needed confidence that the machines would remain reliable for years of continued service. Any solution also had to balance capital investment decisions with the ongoing operational cost of maintaining the fleet.

3. Solution

CMP began by mapping the relevant standards and OEM requirements to the client's operational needs. Working closely with the client, we developed a practical strategy for rebuilding, inspection, and stability testing across the fleet.

We designed an inspection and testing framework that satisfied stakeholder requirements without compromising safety, compliance, or operational practicality. This was supported by an ongoing maintenance strategy to help the client sustain asset performance and manage lifecycle costs with greater confidence.





4. Outcomes

The client successfully maintained and rebuilt key vehicles within the fleet, improving readiness for continued service.

The process gave the client greater control over quality outcomes, with safety embedded as a non-negotiable standard throughout the work. By reducing reliance on external work, the client was also able to monitor and manage costs more accurately over time.



5. CMP Testing Services

CMP Engineers provides specialist vehicle and machinery testing that protects safety, compliance, and asset performance.

Organisations that depend on specialised fleets need equipment that performs reliably, meets regulatory obligations, and operates safely in demanding environments. Many of these vehicles and machines carry unique functional, operational, and compliance requirements that demand rigorous inspection, testing, and certification.

CMP supports clients with engineering-led inspection and testing services designed to reduce risk, extend asset life, and ensure compliance with relevant standards. Our engineers bring decades of experience across complex vehicle and machine inspections, testing programs, and certification requirements.

Our work includes:

- Major inspections for mobile elevating work platforms (MEWPs)
- Stability testing for MEWPs, excavators with specialised attachments, and other critical assets
- Accident damage inspections and repair recommendations for machinery, including MEWPs, crane borers, and excavators
- Truck static rollover threshold (SRT) calculations
- Inspection and testing support for mine-site vehicles and machinery

Where clients have specialised applications, CMP provides practical engineering advice and tailored testing strategies to support safe, compliant operations.

To discover more, visit www.cmpeng.com.au/testing-services or get in touch via info@cmpeng.com.au or [+61 7 3839 2045](tel:+61738392045).

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