

# MECHANICAL TESTING REVIEW

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## HOST DETAILS

- Organisation: Alcoa Australian Rolled Products
  - Location: Alcoa Australian Rolled Products – Pt Henry
  - Facilitator: Graeme Hancock
  - Nominal Work Hours: 08:30 am - 4:30 pm
  - Induction: Wednesday 30-Nov-05 08:00 – 12:00
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## BACKGROUND

- The strength properties of aluminium sheet are an important customer requirement.
  - The tensile strength is measured using a mechanical tester and is reported as “ASYS” – As Shipped Yield Strength
  - Control samples are routinely tested to provide assurance that the mechanical tester results can be relied upon.
  - The control chart of ASYS for controlled samples currently exhibits an unacceptable level of variability.
  - The laboratory has a new mechanical tester, yet to be placed into full time production
  - Alcoa Pt Henry would like to understand the significant factors affecting the ASYS as measured by the current and new mechanical testers
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## OUTLINE

- Conduct gauge capability studies for the mechanical testing facilities at Alcoa Pt Henry laboratory
- Assess the significant factors affecting variability
- Prepare a report, findings and recommendations.