Chromalloy and Nadcap
Presented by S. Evans,
Laboratory Quality Manager

Long live your engine.
Chromalloy UK (CUK)

CUK Clovernook Site

2 Nadcap Accreditations

- **Non Destructive testing** Since May 2003
  - Liquid Penetrant Testing
  - 3 Work stations
  - Merit programme since May 2004 (Audit 24months)

- **Coatings** Since Nov 2004
  - Thermal Spray
  - Vapour deposited coatings
  - Diffusion coating processes
  - Stripping of coated materials
  - Coating evaluations (Shop floor and laboratory)
  - Plating of coated parts
  - Heat treating for suppliers of coatings
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Mandated by OEM in 2003 to achieve Nadcap Accreditation for NDT and Coatings

- 1\textsuperscript{st} stage: NDT  May 2003 – Passed, 2 Minor NCRs

- 2\textsuperscript{nd} stage: Coatings  May 2004 – Failed, 8 Major and 30 Minor NCRs
  
  Coatings Nov 2004 – Passed, 3 Major and 8 Minor NCRS
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Nadcap Audit Performance

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Number of Audits | 30 | 9 | 10 | 5 | 3 | 8 | 8 | 5 | 6 | 8

Red indicates failed audits, yellow indicates successful audits.
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- Review previous audit and NCRs
- Assess the effectiveness of corrective actions taken
- Corrective actions need to be robust and address the root cause
- When completing the check lists, be tough.
- Allocate sufficient time to complete the check lists thoroughly
- Identify required documents on the check list
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- Implement an ongoing review process
- Involve the workforce, don’t rely on the “Quality Team” alone
- Use online help available on the PRI website and eaudit.net
- Use the Supplier Support Committee and the Mentor Programme
- Maintain management continuity
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Benefits

➤ Standardisation of processes to internationally recognised standards

➤ Improved document control

➤ Improved data traceability

➤ Implementation of statistical process control, monitoring trends can indicate a suspected problem before the event.

➤ Improved equipment control and calibration

➤ Improved awareness of the “Quality Management System”

➤ Improved training of operators

➤ Teamwork
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In February 2012 a Continuous Improvement Programme was implemented

This included

- Introduction of Tier 1 and Tier2 boards
- Introduction of Visual Management boards
- Improvements to LPPS Plasma Cell
- Improvements to the general facility
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INVESTMENT IN PEOPLE

4^{th} Q 2011 – 1^{st} Q 2012

- Managing Director
- OPEX Manager
- Operations Manager
- Quality Manager
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INVESTMENT IN PEOPLE

1ST Q 2013 – 2nd Q 2013

➢ Head of Quality
➢ Laboratory Quality Manager
➢ Operations Director
➢ Director of Engineering
INVESTMENT IN ASSETS

3rd Q 2013 Ongoing

➢ New facility incorporating:
  ➢ New Laboratory
  ➢ New Plating shop
  ➢ New Strip shop
  ➢ New Grit Blasting cell
QUESTIONS?