

ROLLS-ROYCE plc

FANS

Expires: October 31, 2009



Subscriber Holding
Nadcap User Compliance and Audit Program
(NUCAP)
Certificate & Scope of Approval



July 27, 2009

Jon Biddulph
Rolls-Royce plc - Fans
PO Box 31
Elton Road ELT 18
Derby DE24 8BJ
UNITED KINGDOM

Dear Mr. Biddulph:

Your facility has been approved for NUCAP. Please note that your NUCAP certificate is valid until **October 31, 2009**. Accordingly, we have enclosed your certificate(s) of approval, your scope of approval, and logo sheet.

Please note that if any changes occur within your company (i.e., ownership, key managerial staff, equipment, company name, quality manager, address, etc.) that may affect your capability or scope of approved activities, you are required to notify PRI Staff by completing the "Notification of Change/Request for Revised Certification" form located in eAuditNet.com/Resources/Public Documents/General Documents, immediately.

We would like to congratulate you on your achievement in meeting the stringent requirements of NUCAP Approval.

If you have any questions concerning the NUCAP Process, please contact PRI Headquarters at (724)772-8660.

Sincerely,

A handwritten signature in black ink that reads "Lisa Shultz". The signature is written in a cursive, flowing style.

Lisa Shultz
Prime Support Engineer
Industry Managed Programs, Research & Development

LS/dlh
Enclosures
Certificate(s)
Scope of Approval
Logo Sheet



In accordance with Program Document PD3000, to the revision in effect at the time of the audit, this certificate is granted and awarded by the authority of the Nadcap Users Compliance and Audit Program (NUCAP) Management Council to:

ROLLS-ROYCE Plc
Fans
at
See Attached Supplement

They have demonstrated conformance and are awarded approval for specific services, listed in the Scope of Approval, as listed in www.pri-network.org on the Approved User's Listing (AUL), to the revision in effect at the time of the audit for:

***Chemical Processing, Coatings, Heat Treating, Nonconventional Machining,
Non-Destructive Testing, Surface Enhancement and Welding***

*Expiration Date: October 31, 2009
Certificate Number: 128274-E
Issue Date: July 27, 2009*

A handwritten signature in black ink, appearing to read "W. G. Wagner", is written over a horizontal line.

William G. Wagner, Vice President and General Manager



SCOPE OF APPROVAL NUCAP

Approval Date: July 27, 2009
Expiration Date: October 31, 2009

Audit #128274
Certificate #128274-E

ROLLS-ROYCE PLC FANS

Fan Case Cell - Ansty
Coomfields Road
Ansty, Coventry CV7 9JR
UNITED KINGDOM

Chemical Processing, Non-Destructive Testing, and Welding

In recognition of the successful completion of the PRI evaluation process,
approval is granted to this facility to perform the following:

Chemical Processing (AC7108) – Audit #126600

AC7108 - Conversion/Phosphate Coatings: Customer Specification
AC7108/1 - Paint/Dry Film Coatings: Customer Specification
Paint: Customer Specification
Dry Film: Customer Specification

Non-Destructive Testing (AC7114 / AC7114 S) – Audit #126566

AC7114 - Nadcap NonDestructive Testing (NDT) Suppliers Accreditation Program
Audit Criteria
AC7114/S - S-U6 Rolls-Royce Corporation
AC7114/1 - Liquid Penetrant
AC7114/1S - S-U3 Rolls-Royce plc
AC7114/4 - Radiography
AC7114/4S - S-U3 Rolls-Royce plc

Approval Date: July 27, 2009
Expiration Date: October 31, 2009

Audit #128274
Certificate #128274-E

Welding (AC7110) – Audit #126567

- AC7110/3 - Electron Beam Welding:
Baseline (All Audits)
- AC7110/5 - Fusion Welding:
Baseline (All Audits)
Supplement C - Automatic / Semi-Automatic (Additional Requirements)
Supplement D - Titanium (Additional Requirements)
Supplement F - Filler Material (Additional Requirements)
Supplement G - Processes Using Gas (For example GTAW, PAW)
(Additional Requirements)
Supplement J - Tack Welding (Additional Requirements)
Supplement M - Filler Material Approved Sources (Additional Requirements)
Supplement N - Gas Contamination at Point of Use (Additional Requirements)
- AC7110/12 - Welder/Welding Operator Qualification:
Baseline (All Audits)
Supplement A - Qualification of Titanium Welders (Additional Requirements)
- AC7110/13 - Metallographic Evaluation of Welds:
Supplement A - Evaluation of Welder / Welding Operator Qualifications
Supplement B – Evaluation of Fusion Welds
Supplement C – Evaluation of Electron Beam / Laser Welds

**ROLLS-ROYCE PLC
FANS**

**Hucknall – Hangars 5&6
Watnall Road
Hucknall NG15 6EU
UNITED KINGDOM**

Chemical Processing, Non-Destructive Testing, and Welding

In recognition of the successful completion of the PRI evaluation process,
approval is granted to this facility to perform the following:

Chemical Processing (AC7108) – Audit #127010

AC7108 - Chemical Cleaning: Titanium (Acid), Ultrasonic
Chemical Milling: Customer Specification

Non-Destructive Testing (AC7114 / AC7114 S) – Audit #127011

AC7114 - Nadcap NonDestructive Testing (NDT) Suppliers Accreditation Program
Audit Criteria
AC7114/S - S-U3 Rolls-Royce Plc
AC7114/1 - Liquid Penetrant
AC7114/1S - S-U3 Rolls-Royce plc
AC7114/4 - Radiography
AC7114/4S - S-U3 Rolls-Royce plc

Welding (AC7110) – Audit #126699

AC7110/3 - Electron Beam Welding:
Baseline (All Audits)
Supplement A – Filler Materials (Additional Requirements)
Supplement B – GTA Tack Welding (Additional Requirements)
Supplement D – Verification of Defect Removal (Additional
Requirements)
AC7110/12 - Welder/Welding Operator Qualification:
Baseline (All Audits)
Supplement A – Qualification of Titanium Welders (Additional
Requirements)
AC7110/13 - Metallographic Evaluation of Welds:
Supplement A - Evaluation of Welder / Welding Operator Qualifications
Supplement C – Evaluation of Electron Beam / Laser Welds

**ROLLS-ROYCE PLC
FANS**

**Bankfield - Barnoldswick
Skipton Road, Barnoldswick, Lancashire BB8 7HY
UNITED KINGDOM**

**Coatings, Heat Treating, Nonconventional Machining,
Non-Destructive Testing, Surface Enhancement, and Welding**

In recognition of the successful completion of the PRI evaluation process,
approval is granted to this facility to perform the following:

Coatings (AC7109) – Audit #126700

- AC7109/1 - Plasma Thermal Spray
- AC7109/4 - Stripping: Chemical
- AC7109/5 - Coating Evaluation Laboratory Practices:
 - Bond Strength: Bend, Tensile
 - Hardness: Rockwell
 - Metallography
 - Specimen Preparation
 - Thickness: Metallographic

Heat Treating (AC7102) – Audit #127012

- AC7102 - Stainless and PH Stainless Steels: (Age, Anneal, and/or Stress Relieve),
Customer Specification
Steels: (Normalize, Anneal, Stress Relieve, or Temper), Customer
Specification
Vacuum Heat Treating: Customer Specification
- AC7102/S - Supplemental Audit Criteria for Heat Treating
S-U3 Rolls-Royce Plc
- AC7102/1 - Vacuum Furnace Brazing
- AC7102/2 - Aluminum Alloys: (Stress Relieve and/or Age Only)
- AC7101/5 - Hardness:
(M3) Vickers Hardness

Nonconventional Machining (AC7116) – Audit #126701

- AC7116/3 - Electrical Discharge Machining (EDM): Wire

Non-Destructive Testing (AC7114 / AC7114 S) – Audit #127301

- AC7114 - Nadcap NonDestructive Testing (NDT) Suppliers Accreditation Program Audit Criteria
- AC7114/S - S-U3 Rolls-Royce Plc
- AC7114/1 - Liquid Penetrant
- AC7114/1S - S-U3 Rolls-Royce plc
- AC7114/4 - Radiography
- AC7114/4S - S-U3 Rolls-Royce plc

Surface Enhancement (AC7117) – Audit #126702

- AC7117/2 - Automated Peening

Welding (AC7110) – Audit #127018

- AC7110/3 - Electron Beam Welding:
 - Baseline (All Audits)
 - Supplement C – Stress Relieve (Additional Requirements)
 - Supplement D – Verification of Defect Removal (Additional Requirements)
 - Supplement E – Non-Nadcap Accredited Metallurgical Test Laboratories
- AC7110/5 - Fusion Welding:
 - Baseline (All Audits)
 - Supplement C – Automatic / Semi-automatic (Additional Requirements)
 - Supplement D – Titanium (Additional Requirements)
 - Supplement F – Filler Materials (Additional Requirements)
 - Supplement G – Processes Using Gas (For Example GTAW, PAW) (Additional Requirements)
 - Supplement I – Stress Relieve (Additional Requirements)
 - Supplement J – Tack Welding (Additional Requirements)
 - Supplement K – Verification of Defect Removal (Additional Requirements)
 - Supplement M – Filler Material Approved Sources (Additional Requirements)
 - Supplement N – Gas Contamination at Point of Use (Additional Requirements)
 - Supplement O – Non-Nadcap Accredited Metallurgical Test Laboratories
- AC7110/8 - Diffusion Welding:
 - Baseline (All Audits)
 - Supplement A – Destructive Testing (Additional Requirements)

Approval Date: July 27, 2009
Expiration Date: October 31, 2009

Audit #128274
Certificate #128274-E

Welding (AC7110) – Audit #127018 (Cont'd.)

- AC7110/12 - Welder/Welding Operator Qualification:
Baseline (All Audits)
Supplement A – Qualification of Titanium Welders (Additional Requirements)
Supplement B – Non-Nadcap Accredited Metallurgical Test Laboratories
- AC7110/13 - Metallographic Evaluation of Welds:
Supplement A - Evaluation of Welder / Welding Operator Qualifications
Supplement B – Evaluation of Fusion Welds
Supplement C – Evaluation of Electron Beam / Laser Welds
Supplement E – Design Authority Authorization

**ROLLS-ROYCE PLC
FANS**

**Ghyll Brow Works- Barnoldswick
Barnoldswick, Colne BB18 5RU
UNITED KINGDOM**

Chemical Processing, Heat Treating, and Non-Destructive Testing

In recognition of the successful completion of the PRI evaluation process,
approval is granted to this facility to perform the following:

Chemical Processing (AC7108) – Audit #127578

- AC7108 - Chemical Cleaning: Titanium (Acid)
Chemical Milling: Customer Specification
- AC7108/2 - Etching: Pre-Penetrant

Heat Treating (AC7102) – Audit #127013

- AC7102 - Titanium Alloys (Age, Anneal, and/or Duplex Anneal, & Stress Relieve),
Vacuum Heat Treating: Customer Specification
- AC7102/S - Supplemental Audit Criteria for Heat Treating
S-U3 Rolls-Royce Plc

Non-Destructive Testing (AC7114 / AC7114 S) – Audit #127302

- AC7114 - Nadcap NonDestructive Testing (NDT) Suppliers Accreditation Program
Audit Criteria
- AC7114/S - S-U3 Rolls-Royce Plc
- AC7114/1 - Liquid Penetrant
- AC7114/1S - S-U3 Rolls-Royce plc
- AC7114/4 - Radiography
- AC7114/4S - S-U3 Rolls-Royce plc