

ROLLS-ROYCE plc

FANS

Expires: October 31, 2010



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



August 31, 2010

Richard Blyth
Rolls-Royce plc- Fan Systems
PO Box 31
Elton Road ELT 18
Derby DE24 8BJ
UNITED KINGDOM

Dear Mr. Blyth:

Your facility has been approved for NUCAP. Please note that your NUCAP certificate is valid until **October 31, 2010**. 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](http://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 cursive script that reads "Christine Sanz". The signature is written in black ink and is positioned above the printed name.

Christine Sanz
Business Development Specialist

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 Fan Systems

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, Nondestructive Testing, and Welding

A handwritten signature in black ink, appearing to read "Anthony Pulo". The signature is written in a cursive style and is positioned above a horizontal line.

Vice President & Chief Operating Officer

Expiration Date: October 31, 2010

Certificate Number: 134056

Issue Date: August 31, 2010

Performance Review Institute (PRI) 161 Thorn Hill Road Warrendale, PA 15086-7527



SCOPE OF APPROVAL NUCAP

Approval Date: August 31, 2010
Expiration Date: October 31, 2010

Audit #134056
Certificate #134056

ROLLS-ROYCE PLC Fan Systems

Ansty
Coomfields Road,
Ansty Coventry
United Kingdom, CV7 9JR

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 #132168

AC7108 Rev C - Nadcap Audit Criteria for Chemical Processing
Conversion/Phosphate Coatings-Other
Paint/Dry Film (AC7108/1 MUST ALSO BE SELECTED)

AC7108/1 Rev A - Nadcap Audit Criteria for Painting & Dry Film Coatings (1)
Paint/Dry Film Coatings-Other

Approval Date: August 31, 2010
Expiration Date: October 31, 2010

Audit #134056
Certificate #134056

Non-Destructive Testing (AC7114 / AC7114 S) – Audit #132171

AC7114 Rev C - Nadcap NonDestructive Testing (NDT) Suppliers Accreditation Program Audit Criteria

AC7114S Rev D - Supplemental Audit Criteria for Nadcap NonDestructive (NDT) Suppliers Accreditation Program Audit Criteria
S-U3 Rolls-Royce PLC

AC7114/1 Rev C - Nadcap Audit Criteria for NonDestructive Testing Facility Penetrant Survey

AC7114/1S Rev D - Supplemental Audit Criteria for Nadcap Audit Criteria for NonDestructive Testing Facility Penetrant Survey
S-U3 Rolls-Royce PLC

AC7114/4 Rev C - Nadcap Audit Criteria for NonDestructive Testing Facility Film Radiography Survey

AC7114/4S Rev D - Supplemental Audit Criteria for Nadcap Audit Criteria for NonDestructive Testing Facility Film Radiography Survey
S-U3 Rolls-Royce PLC

Welding (AC7110) – Audit #132169

AC7110 Rev D - Nadcap Audit Criteria for Welding/Brazing

AC7110/5 Rev E - Nadcap Audit Criteria for 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 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)

AC7110/12 Rev A - Nadcap Audit Criteria for Welder/Welding Operator Qualification
Baseline (All audits)
Supplement A - Qualification of titanium welders (Additional requirements)

AC7110/13 - Nadcap Audit Criteria for Metallurgical Evaluation of Welds
Supplement A - Evaluation of Welder / Welding Operator Qualifications
Supplement B - Evaluation of Fusion Welds

Approval Date: August 31, 2010
Expiration Date: October 31, 2010

Audit #134056
Certificate #134056

ROLLS-ROYCE PLC
Fan Systems

Banksfield/Barnoldswick

**Skipton Road,
Barnoldswick Lancashire,
United Kingdom, BB8 7HY**

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

Chemical Processing (AC7108) – Audit #132370

AC7108 Rev C - Nadcap Audit Criteria for Chemical Processing

- Anodizing-Other
- Chemical Cleaning-Alkaline Cleaning
- Chemical Cleaning-Titanium Cleaning-Acid
- Chemical Cleaning-Titanium Cleaning-Alkaline
- Conversion/Phosphate Coatings-Other
- Etch (AC7108/2 MUST ALSO BE SELECTED)
- Paint/Dry Film (AC7108/1 MUST ALSO BE SELECTED)
- AC7108/1 Rev A - Nadcap Audit Criteria for Painting & Dry Film Coatings (1)
- Dry Film Coatings - Other
- Paint - Other
- Paint/Dry Film Coatings-Other

AC7108/2 Rev A - Nadcap Audit Criteria for Etch Processes (Blue Etch Anodize, Local, Macrostructure, Nital, Pre-Penetrant, Temper) (to be used on or BEFORE 13-Mar-10)

- Local (Swab) Etch
- Macrostructure Etch
- Pre-Penetrant Etch

Approval Date: August 31, 2010
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Audit #134056
Certificate #134056

Coatings (AC7109) – Audit #132368

AC7109 Rev B - Nadcap Audit Criteria for Coatings

AC7109/1 Rev B - Nadcap Audit Criteria for Thermal Spray
Plasma Thermal Spray

AC7109/5 Rev C - Nadcap Audit Criteria for Coating Evaluation Laboratory
Practices (Req'd for all Coatings audits - except suppliers using Nadcap
approved AC7109/5 labs)
Bond Strength – Bend
Bond Strength - Tensile
Hardness - Rockwell
Metallography
Specimen Preparation
Surface Finish
Thickness - Mechanical
Thickness - Metallographic

Heat Treating (AC7102) – Audit #132344

AC7102 Rev E - Nadcap Audit Criteria for Heat Treating
Aluminum Alloys - AC7102/2 must also be selected
Brazing - AC7102/1 must also be selected
Stainless Steels, Precipitation Hardening - Customer Specs
Stainless and PH Stainless Steels (Age, Anneal, and/or Stress Relieve)
Steels (Normalize, Anneal, Stress Relieve, or Temper)
Steels- Customer Specs
Titanium Alloys (Age, Anneal, and/or Duplex Anneal, & Stress Relieve)
Titanium Alloys (No Water Quench)
Titanium Alloys - Customer Spec
Vacuum Heat Treating- Customer Specs

AC7102S Rev A - Nadcap Supplemental Audit Criteria for Heat Treating
U3 – Rolls–Royce PLC

AC7102/1 Rev D - Nadcap Audit Criteria for Brazing
Vacuum Furnace Brazing (to be used on or BEFORE 30-Jan-2010)

AC7102/2 Rev A - Nadcap Audit Criteria for Aluminum Heat Treating
Aluminum Alloys (Stress Relieve and/or Age Only)

AC7102/5 - Nadcap Audit Criteria for Hardness Testing for Heat Treating
(M3)Vickers Hardness

NonDestructive Testing (AC7114) – Audit #132372

AC7114 Rev C - Nadcap NonDestructive Testing (NDT) Suppliers Accreditation Program Audit Criteria

AC7114S Rev D - Supplemental Audit Criteria for Nadcap NonDestructive (NDT) Suppliers Accreditation Program Audit Criteria
S-U3 Rolls-Royce PLC

AC7114/1 Rev C - Nadcap Audit Criteria for NonDestructive Testing Facility Penetrant Survey

AC7114/1S Rev D - Supplemental Audit Criteria for Nadcap Audit Criteria for NonDestructive Testing Facility Penetrant Survey
S-U3 Rolls-Royce PLC

AC7114/4 Rev C - Nadcap Audit Criteria for NonDestructive Testing Facility Film Radiography Survey

AC7114/4S Rev D - Supplemental Audit Criteria for Nadcap Audit Criteria for NonDestructive Testing Facility Film Radiography Survey
S-U3 Rolls-Royce PLC

Nonconventional Machining (AC7116) – Audit #132347

AC7116 Rev A - Nadcap Audit Criteria for Nonconventional Machining (ECM, ECG, EDM, LBM)

AC7116/3 Rev A - Nadcap Audit Criteria for Electrical Discharge Machining (EDM) Wire

Surface Enhancement (AC7117) – Audit #132348

AC7117 Rev A - Nadcap Audit Criteria for Shot Peening, Peen Forming, Glass Bead Peening

AC7117/1 - Nadcap Audit Criteria for Computer Controlled Peening

AC7117/2 - Nadcap Audit Criteria for Automated Peening

Approval Date: August 31, 2010
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Audit #134056
Certificate #134056

Welding (AC7110) – Audit #132371

AC7110 Rev D - Nadcap Audit Criteria for Welding/Brazing

AC7110/3 Rev E - Nadcap Audit Criteria for Electron Beam Welding

Baseline (All audits)

Supplement B - GTA Tack Welding (Additional requirements)

Supplement D - Verification of Defect Removal (Additional requirements)

AC7110/5 Rev E - Nadcap Audit Criteria for 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 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)

AC7110/8 Rev D - Nadcap Audit Criteria for Diffusion Welding

Baseline (All audits)

Supplement A - Destructive Testing (Additional requirements)

AC7110/12 Rev A - Nadcap Audit Criteria for Welder/Welding Operator Qualification

Baseline (All audits)

Supplement A - Qualification of titanium welders (Additional requirements)

AC7110/13 - Nadcap Audit Criteria for Metallurgical 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

Approval Date: August 31, 2010
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Audit #134056
Certificate #134056

ROLLS-ROYCE PLC
Fan Systems

Ghyll Brow/Barnoldswick

Ghyll Brow Works,
Barnoldswick Colne
United Kingdom, BB18 5RU

**Chemical Processing, Heat Treating,
And Non-Destructive Testing,**

Chemical Processing (AC7108) – Audit #132369

AC7108 Rev C - Nadcap Audit Criteria for Chemical Processing

Chemical Cleaning-Titanium Cleaning-Acid

Chemical Milling (AC7108/5 MUST ALSO BE SELECTED) (to be used on or after 3-Nov-08)

Etch (AC7108/2 MUST ALSO BE SELECTED)

AC7108/2 Rev A - Nadcap Audit Criteria for Etch Processes (Blue Etch Anodize, Local, Macrostructure, Nital, Pre-Penetrant, Temper) (to be used on or BEFORE 13-Mar-10)

Pre-Penetrant Etch

AC7108/5 - Nadcap Audit Criteria for Chemical Milling

Chemical Milling- MIL-C-81769 (to be used on or after 3-Nov-08)

Heat Treating (AC7102) – Audit #132351

AC7102 Rev E - Nadcap Audit Criteria for Heat Treating

Titanium Alloys (Age, Anneal, and/or Duplex Anneal, & Stress Relieve)

Vacuum Heat Treating- Customer Specs

AC7102S Rev A - Nadcap Supplemental Audit Criteria for Heat Treating

U3 – Rolls–Royce PLC

NonDestructive Testing (AC7114) – Audit #132373

AC7114 Rev C - Nadcap NonDestructive Testing (NDT) Suppliers Accreditation Program Audit Criteria

AC7114S Rev D - Supplemental Audit Criteria for Nadcap NonDestructive (NDT)

Suppliers Accreditation Program Audit Criteria

S-U3 Rolls-Royce PLC

AC7114/1 Rev C - Nadcap Audit Criteria for NonDestructive Testing Facility Penetrant Survey

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Audit #134056
Certificate #134056

NonDestructive Testing (AC7114) continued– Audit #132373

AC7114/1S Rev D - Supplemental Audit Criteria for Nadcap Audit Criteria for
NonDestructive Testing Facility Penetrant Survey
S-U3 Rolls-Royce PLC

AC7114/4 Rev C - Nadcap Audit Criteria for NonDestructive Testing Facility Film
Radiography Survey

AC7114/4S Rev D - Supplemental Audit Criteria for Nadcap Audit Criteria for
NonDestructive Testing Facility Film Radiography Survey
S-U3 Rolls-Royce PLC

Welding (AC7110) – Audit #132202

AC7110 Rev D - Nadcap Audit Criteria for Welding/Brazing

AC7110/3 Rev E - Nadcap Audit Criteria for 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 Rev A - Nadcap Audit Criteria for Welder/Welding Operator Qualification
Baseline (All audits)
Supplement A - Qualification of titanium welders (Additional requirements)

AC7110/13 - Nadcap Audit Criteria for Metallurgical Evaluation of Welds
Supplement A - Evaluation of Welder / Welding Operator Qualifications
Supplement C - Evaluation of Electron Beam / Laser Welds

Approval Date: August 31, 2010
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Audit #134056
Certificate #134056

ROLLS-ROYCE PLC
Fan Systems

Hucknall

Hangars 5&6, Watnall Road
Hucknall
United Kingdom, NG15 6EU

**Chemical Processing, Non-Destructive Testing
and Welding**

Chemical Processing (AC7108) – Audit #132201

AC7108 Rev C - Nadcap Audit Criteria for Chemical Processing
Chemical Cleaning-Other
Chemical Cleaning-Solvent Cleaning
Chemical Cleaning-Titanium Cleaning-Acid
Chemical Cleaning-Titanium Cleaning-Alkaline
Chemical Cleaning-Ultrasonic
Etch (AC7108/2 MUST ALSO BE SELECTED)

AC7108/2 Rev A - Nadcap Audit Criteria for Etch Processes (Blue Etch Anodize, Local, Macrostructure, Nital, Pre-Penetrant, Temper) (to be used on or BEFORE 13-Mar-10)
Pre-Penetrant Etch

NonDestructive Testing (AC7114) – Audit #132383

AC7114 Rev C - Nadcap NonDestructive Testing (NDT) Suppliers Accreditation Program Audit Criteria

AC7114S Rev D - Supplemental Audit Criteria for Nadcap NonDestructive (NDT) Suppliers Accreditation Program Audit Criteria
S-U3 Rolls-Royce PLC

AC7114/1 Rev C - Nadcap Audit Criteria for NonDestructive Testing Facility Penetrant Survey

AC7114/1S Rev D - Supplemental Audit Criteria for Nadcap Audit Criteria for NonDestructive Testing Facility Penetrant Survey
S-U3 Rolls-Royce PLC

Approval Date: August 31, 2010
Expiration Date: October 31, 2010

Audit #134056
Certificate #134056

DEVIATION SUMMARY:

NO OPEN DEVIATIONS