



August 13, 2009

Ms. Laurie Strom
Honeywell Aerospace
5340 E Laurel Lane
Scottsdale, Arizona 85254-4743
USA

Dear Ms. Strom:

Your facility has been re-approved for NUCAP. Please note that your NUCAP certificate is valid until **July 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 black ink, appearing to read "Lisa Shultz". The signature is fluid and cursive, written in a professional 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:

HONEYWELL AEROSPACE

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, Materials Testing,
Nonconventional Machining, Nondestructive Testing,
Surface Enhancement & Welding***

*Expiration Date: July 31, 2010
Certificate Number: 131609
Issue Date: August 13, 2009*

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

William G. Wagner, Vice President and General Manager



SCOPE OF APPROVAL NUCAP

Approval Date: August 13, 2009
Expiration Date: July 31, 2010

Audit #131609
Certificate #131609

**Honeywell Aerospace
7 Frankford Avenue, Building 134
Anniston, Alabama 36201**

Nonconventional Machining, and Welding

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

Nonconventional Machining (AC7116)

AC7116/4 - Laser Beam Machining (LBM): Cutting

Welding (AC7110)

AC7110/5 - Fusion Welding:
Baseline (All Audits)
Automatic / Semi-automatic (Additional Requirements)
Filler Materials (Additional Requirements)
Processes Using Gas (For Example GTAW, PAW) (Additional Requirements)

AC7110/6 - Laser Welding:
Baseline (All Audits)
Non-Nadcap Accredited Metallurgical Test Laboratories (Additional Requirements)

AC7110/12 - Welder/Welding Operator Qualifications:
Baseline (All Audits)
Non-Nadcap Accredited Metallurgical Test Laboratories (Additional Requirements)

AC7110/13 - Metallurgical Evaluation of Welds:
Evaluation of Electron Beam / Laser Welds (identify if this process is used)
Evaluation of Welder / Welding Operator Qualifications (identify if this process is used)

**Honeywell Chihuahua Mexico
Division of Honeywell International
Vialidad Tabalaopa No. 8507 Parque Industrial Avalos.
Chihuahua, MEXICO 31074**

Heat Treating, Nondestructive Testing and Surface Enhancement

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

Heat Treating (AC7102) – Audit #129618

- AC7102 - Nickel and Cobalt Alloys (Customer Specification)
Stainless and PH Stainless Steels: AMS 2759/3, Customer Specifications
Steels: AMS 2759, AMS 2759/1, AMS 2759/2, Customer Specifications
Titanium Alloys (Customer Specification)
- AC7102S - Nadcap Supplemental Audit Criteria for Heat Treating:
U00 – None
- AC7102/5 - Hardness Testing for Heat Treating:
Hardness - Rockwell

NonDestructive Testing (AC7114 / AC7114S)

- AC7114 - Nadcap Nondestructive (NDT) Suppliers Accreditation Program Audit Criteria
- AC7114 S - S-U1 Honeywell
- AC7114/1 - Liquid Penetrant
- AC7114/1 S - S-U1 Honeywell

Surface Enhancement (AC7117)

- AC7117/2 - Automated

Honeywell Aerospace - SECAN
Division of Honeywell International
23 Rue du 19 Mars 1962
92230 Gennevilliers Cedex, France

Heat Treating, Nondestructive Testing and Welding

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

Heat Treating (AC7102)

- AC7102 - Nickel and Cobalt Alloys (Age, Anneal and Stress Relieve)
Stainless and PH Stainless Steels (Age, Anneal and/or Stress Relieve)
Vacuum Heat Treating (Commercial)
- AC7102/1 - Brazing: Dip Brazing, Vacuum Furnace Brazing
- AC7102/2 - Aluminum Alloys: (Anneal and/or Stress Relieve), (Castings), (Stress Relieve and/or Age Only)
- AC7102/5 - Hardness Testing for Heat Treating:
Hardness – Brinell
Hardness - Vickers

NonDestructive Testing (AC7114 / AC7114S)

- AC7114 - Nadcap Nondestructive (NDT) Suppliers Accreditation Program Audit Criteria
- AC7114/1 - Liquid Penetrant
- AC7114/4 - Radiography

Welding (AC7110) – Audit #129692

- AC7110/1 - Brazing:
Baseline (All Audits)
Aluminum (Additional Requirements)
Stress Relieve (Additional Requirements)
Torch (Additional Requirements)
- AC7110/4 - Resistance Welding (Spot, Seam, Projection):
Baseline (All Audits)
Aluminum / Magnesium (Additional Requirements)
Spot Welding (Identify if this process is used)

Approval Date: August 13, 2009
Expiration Date: July 31, 2010

Audit #131609
Certificate #131609

Welding (AC7110) – Audit #129692 (Cont'd.)

- AC7110/5 - Fusion Welding:
 - Baseline (All Audits)
 - Filler Materials (Additional Requirements)
 - Processes Using Gas (For Example GTAW, PAW) (Additional Requirements)
 - Stress Relieve (Additional Requirements)
 - Tack Welding (Additional Requirements)
 - Traceability of Filler Material Heat Lot (Additional Requirements)
 - Verification of Defect Removal (Additional Requirements)
- AC7110/12 - Welder/Welding Operator Qualification:
 - Baseline (All Audits)
- AC7110/13 - Metallurgical Evaluation of Welds
 - Evaluation of Resistance Welds (Identify if this process is used)

Honeywell Aerospace
85 Beeco Road
Greer, South Carolina 29652 USA

**Coatings, Heat Treating, Nondestructive Testing
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)

AC7109/2 - Vapor Deposit: Physical Vapor Deposition (PVD) – Electron Beam
AC7109/4 - Stripping: Chemical

Heat Treating (AC7102)

AC7102 - Vacuum Heat Treating: Customer Specification / Other
AC7102S - Supplemental Audit Criteria for Heat Treating
U10 – GE Aviation
AC7102/5 - Hardness Testing for Heat Treating:
Hardness – Rockwell

NonDestructive Testing (AC7114 / AC7114 S)

AC7114 - Nadcap Nondestructive (NDT) Suppliers Accreditation Program Audit Criteria
AC7114S - S-U10 GE
AC7114/1 - Liquid Penetrant
AC7114/1S - S-U10 GE

Welding (AC7110)

AC7110/6 - Laser Welding
Baseline (All Audits)
AC7110/12- Welder/Welding Operator Qualification
Baseline (All Audits)
AC7110/13 - Metallurgical Evaluation of Welds
Evaluation of Electron Beam / Laser Welds (identify if this process is used)
Evaluation of Welder/Welding Operator Qualifications (identify if this process is used)

Approval Date: August 13, 2009
Expiration Date: July 31, 2010

Audit #131609
Certificate #131609

**Honeywell Aerospace
Greer O.E.M.
400 S. Buncombe Road
Greer, South Carolina 29652**

**Chemical Processing, Coatings, Heat Treating, Materials Testing Laboratories,
Nonconventional Machining, Nondestructive 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:

Chemical Processing (AC7108) – Audit #128634

- AC7108 - Conversion/Phosphate Coatings: AMS 2481
Surface Treatment/Passivation: AMS 2700, Customer Specification / Other
- AC7108/1 - Painting & Dry Film Coatings:
Dry Film Coatings – Customer Specification / Other

Coatings (AC7109)

- AC7109/1 - Thermal Spray: Oxy/Fuel Powder Spray, Plasma Thermal Spray
- AC7109/3 - Diffusion Coating Processes: Chemical Vapor Deposition (CVD) Diffusion, Pack Process (Above Pack), Slurry Process (Spray)
- AC7109/5 - Coating Evaluation Laboratory Practices: Coating Composition, Hardness - Rockwell, Metallography, Specimen Preparation, Thickness (Metallographic), Visual (Microscopic)

Heat Treating (AC7102)

- AC7101/4 - Metallography and Microhardness:
 - (L) Metallography (General)
 - (L6) Near Surface Examination – Diffusion Coating
- AC7102 - Nickel and Cobalt Alloys: Customer Specification / Other
- AC7102/1 - Brazing: Vacuum Furnace Brazing
- AC7102/5 - Hardness Testing for Heat Treating:
 - Hardness – Rockwell

Materials Testing Laboratories (AC7101)

- AC7101/1 - General Requirements for All Laboratories
- AC7101/4 - Metallography and Microhardness:
 - (L) Metallography (General)
 - (L2) Near Surface Examinations - Alloy Depletion
 - (L6) Near Surface Examinations – Diffusion Coating
- AC7101/5 - Hardness Testing:
 - (M2) Rockwell Hardness
- AC7109/5 - Coating Evaluation Laboratory Practices:
 - Coating Composition
 - Hardness – Rockwell
 - Metallography
 - Specimen Preparation
 - Thickness – Metallographic
 - Visual - Microscopic

Nonconventional Machining (AC7116)

- AC7116/3 - Electrical Discharge Machining (EDM): Fast Hole, Sinkers, Wire

NonDestructive Testing (AC7114 / AC7114S)

- AC7114 - Nadcap Nondestructive (NDT) Suppliers Accreditation Program Audit Criteria
- AC7114S - S-U1 Honeywell
- AC7114/1 - Liquid Penetrant
- AC7114/1S - S-U1 Honeywell
- AC7114/2 - Magnetic Particle
- AC7114/2S - S-U1 Honeywell
- AC7114/4 - Radiography
- AC7114/4S - S-U1 Honeywell
- AC7108/2 - Etching:
 - Local (Swab) Etch
 - Pre-Penetrant Etch

Surface Enhancement (AC7117)

- AC7117/2 - Automated

Approval Date: August 13, 2009
Expiration Date: July 31, 2010

Audit #131609
Certificate #131609

Welding (AC7110)

- AC7110/5 - Fusion Welding:
 - Baseline (All Audits)
 - Filler Materials (Additional Requirements)
 - Processes using Gas (For Example, GTAW, PAW) (Additional Requirements)
 - Tack Welding (Additional Requirements)
- AC7110/12 - Welder/Welding Operator Qualification
 - Baseline (All Audits)
- AC7110/13- Metallurgical Evaluation of Welds
 - Evaluation of Welder/Welding Operator Qualifications (identify if this process is used)

**Honeywell Aerospace Yeovil (Lufton)
Division of Honeywell Aerospace
Boundary Road, Lufton Trading Estate
Yeovil, Somerset, BA22 8SE, United Kingdom**

Heat Treating, Nondestructive Testing and Welding

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

Heat Treating (AC7102)

- AC7102 - Beryllium Copper: (Age Only)
Copper Alloys (Stress and/or Anneal)
Cryogenic Treatments
Induction Heat Treating
Magnetic Irons
Nickel and Cobalt Alloys: (Age, Anneal and Stress Relieve)
Stainless Martensitic Steels: AMS 2759/5
Stainless Steels: AMS 2759/4, AMS-H-6875 CL-B, AMS-H-6875 CL-C, Customer Specifications
Stainless and PH Stainless Steels: (Age, Anneal and/or Stress Relieve), (Casting Only), AMS-H-6875 CL-D, AMS 2759/3, Customer Specifications
Steels: (Normalize, Anneal, Stress Relieve, or Temper), AMS 2759/1, AMS 2759/2, AMS-H-6875 CL-A, Customer Specifications
Titanium Alloys: (Age, Anneal and/or Duplex Anneal, and Stress Relieve)
Vacuum Heat Treating: (Commercial), AMS 2769, Customer Specification
- AC7102/1 - Brazing: Furnace Brazing, Induction Brazing, Vacuum Furnace Brazing
- AC7102/2 - Aluminum Alloys: (Anneal and/or Stress Relieve Only), (Stress Relieve and/or Age Only), AMS 2770, Customer Specification
- AC7102/5 - Hardness Testing for Heat Treating:
Hardness - Vickers
- AC7102S - Supplemental Audit Criteria for Heat Treating
U00 - None

Nondestructive Testing (AC7114 / AC7114S) – Audit #129688 - Satellite

- AC7114 - Nadcap Nondestructive (NDT) Suppliers Accreditation Program Audit Criteria
- AC7114/1 - Liquid Penetrant
- AC7114/2 - Magnetic Particle

Welding (AC7110)

- AC7110/1 - Brazing:
 - Baseline (All Audits)
 - Aluminum (Additional Requirements)
 - GTA Tack Welding (Additional Requirements)
 - Induction (Additional Requirements)
 - Torch (Additional Requirements)
- AC7110/3 - Electron Beam Welding:
 - Baseline (All Audits)
 - GTA Tack Welding (Additional Requirements)
 - Verification of Defect Removal (Additional Requirements)
- AC7110/5 - Fusion Welding:
 - Baseline (All Audits)
 - Casting Repairs (Additional Requirements)
 - Filler Materials (Additional Requirements)
 - Filler Material Approved Sources (Additional Requirements)
 - Processes Using Gas (For Example GTAW, PAW) (Additional Requirements)
 - Tack Welding (Additional Requirements)
 - Titanium (Additional Requirements)
 - Traceability of Filler Material Heat Lot (Additional Requirements)
 - Verification of Defect Removal (Additional Requirements)
- AC7110/12 - Welder/Welding Operator Qualification:
 - Baseline (All Audits)
 - Qualification of Titanium Welders (Additional Requirements)
- AC7110/13 - Metallurgical Evaluation of Welds:
 - Design Authority Authorization (identify if this process is used)
 - Evaluation of Electron Beam / Laser Welds (identify if this process is used)
 - Evaluation of Fusion Welds (identify if this process is used)
 - Evaluation of Welder / Welding Operator Qualifications (identify if this process is used)

**Honeywell Aerospace de Mexico, S.A., de C.V.
Division of Honeywell Aerospace
AV. Circuit Aeroespacial #2, Parque Industrial El Vigia II
Mexicali, Baja California MEXICO 21395**

**Chemical Processing, Composites, Heat Treating, Nondestructive 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)

- AC7108 - Conversion/Phosphate Coatings: MIL-C-5541
Surface Treatment/Passivation: AMS-QQ-P-35, QQ-P-35
- AC7108/1 - Painting & Dry Film Coatings: MIL-P-23377, Customer Specification / Other
- AC7108/2 - Etching: Pre-Penetrant Etch

Composites (AC7118)

- AC7118 - Prepreg / Adhesive Bonding
Core Processing

Heat Treating (AC7102) – Audit #129618

- AC7102/1 - Brazing: Dip Brazing, Vacuum Furnace Brazing
- AC7102/2 - Aluminum Alloys: (Anneal and/or Stress Relieve), AMS 2770,
Customer Specification / Other
- AC7102 - Copper Alloys: (Stress and/or Anneal)
Nickel and Cobalt Alloys: (Age, Anneal & Stress Relieve)
Stainless and PH Stainless Steels: (Age, Anneal and/or Stress Relieve)
Steels: (Normalize, Anneal, Stress Relieve or Temper)
Vacuum Heat Treating: Customer Specification / Other
- AC7102S - Supplemental Audit Criteria for Heat Treating
U00 - None
- AC7102/5 - Hardness Testing for Heat Treating:
Hardness – Rockwell

NonDestructive Testing (AC7114)

- AC7114 - Nadcap Nondestructive Testing (NDT) Suppliers Accreditation Program Audit
Criteria
- AC7114/1 - Liquid Penetrant

Welding (AC7110)

- AC7110/1 - Brazing:
 - Baseline (All audits)
 - GTA Tack Welding (Additional requirements)
 - Stress Relieve (Additional requirements)
 - Torch (Additional requirements)
- AC7110/4 - Resistance Welding:
 - Baseline (All Audits)
 - GTA Tack Welding (Additional Requirements)
 - Shear Testing (Additional Requirements)
 - Spot Welding (Additional Requirements)
- AC7110/5 - Fusion Welding:
 - Baseline (All Audits)
 - Filler Materials (Additional Requirements)
 - Filler Material Approved Sources (Additional Requirements)
 - Processes Using Gas (For Example GTAW, PAW) (Additional Requirements)
 - Stress Relieve (Additional Requirements)
 - Tack Welding (Additional Requirements)
 - Traceability of Filler Material Heat Lot (Additional Requirements)
- AC7110/12 - Welder/Welding Operator Qualification:
 - Baseline (All Audits)
 - Non-Nadcap Accredited Metallurgical Test Laboratories (Additional requirements)
- AC7110/13 - Metallurgical Evaluation of Welds:
 - Evaluation of Fusion Welds (identify if this process is used)
 - Evaluation of Resistance Welds (identify if this process is used)
 - Evaluation of Welder / Welding Operator Qualifications (identify if this process is used)

Mora Aerospace, a.s.
Division of Honeywell Aerospace
Nadrazni 50
783 66 Hlubocky-Marianske Udoli, Czech Republic

**Chemical Processing, Coatings, Heat Treating, Nonconventional Machining,
Nondestructive 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)

- AC7108 - Anodizing: AMS-A-8625, MIL-A-8625
Chemical Cleaning: Solvent, Titanium
(Acid)
Plating: Nickel (AMS 2424)
Surface Treatment: AMS-QQ-P-35, Customer Specification / Other
- AC7108/1 - Painting & Dry Film Coatings:
Dry Film Coatings – Customer Specification / Other

Coatings (AC7109) – Audit 129617

- AC7109/1 - Thermal Spray: Electric Arc Wire Spray, Plasma Thermal Spray
- AC7109/4 - Stripping: Chemical, Grit Blast, Customer Specification / Other
- AC7109/5 - Coating Evaluation Laboratory Practices: Metallography, Specimen Preparation, Thickness (Metallographic), Visual (Microscopic)

Heat Treating (AC7102)

- AC7101/4 - Materials Test Laboratories – Metallography and Microhardness:
(L) Metallography (General)
(L5) Near Surface Examinations – Microhardness
(L8) Near Surface Examinations – Alpha Case: Wrought
- AC7102/2 - Aluminum Alloys:
AMS 2770, AMS-H-6088
- AC7102/1 - Brazing: Vacuum Furnace Brazing
- AC7102/5 - Hardness Testing for Heat Treating:
Hardness – Brinell
Hardness – Rockwell
Hardness – Vickers

Heat Treating (AC7102) (Cont'd.)

- AC7102 - Nickel and Cobalt Alloys: (Age, Anneal & Stress Relieve), (Casting Only),
AMS 2774, Customer Specification / Other
Plating: (Brazing Prep Only)
Stainless Steels: AMS 2759/4, Customer Specification / Other
Stainless and pH Stainless Steels: (Age, Anneal and/or Stress Relieve),
(Casting Only), AMS 2759/3, Customer Specification / Other
Titanium Alloys: AMS 2801, AMS-H-81200
Vacuum Heat Treating: AMS 2769, Customer Specification / Other
- AC7102S - Supplemental Audit Criteria for Heat Treating
U00 - None

Nonconventional Machining (AC7116)

- AC7116/3 - Electrical Discharge Machining (EDM): Sinker, Wire
AC7116/4 - Laser Beam Machining (LBM): Cutting

NonDestructive Testing (AC7114 / AC7114 S)

- AC7114 - Nadcap Nondestructive Testing (NDT) Suppliers Accreditation Program Audit
Criteria
- AC7114S - S-U1 Honeywell
- AC7114/1 - Liquid Penetrant
- AC7114/1 S - S-U1 Honeywell
- AC7114/4 - Radiography
- AC7114/4 S - S-U1 Honeywell

Welding (AC7110)

- AC7110/1 - Brazing:
Baseline (All Audits)
Torch (Additional Requirements)
- AC7110/3 - Electron Beam Welding:
Baseline (All Audits)
GTA Tack Welding (Additional Requirements)
- AC7110/4 - Resistance Welding (Spot, Seam, Projection):
Baseline (All Audits)
Aluminum / Magnesium (Additional Requirements)
GTA Tack Welding (Additional Requirements)
Seam Welding (Additional Requirements)
Shear Testing (Additional Requirements)
Spot Welding (Additional Requirements)

Welding (AC7110) (Cont'd.)

- AC7110/5 - Fusion Welding:
 - Baseline (All Audits)
 - Automatic / Semi-automatic (Additional Requirements)
 - Filler Materials (Additional Requirements)
 - Filler Material Approved Sources (Additional Requirements)
 - Processes Using Gas (For Example GTAW, PAW) (Additional Requirements)
 - Tack Welding (Additional Requirements)
 - Titanium (Additional Requirements)
 - Traceability of Filler Material Heat Lot (Additional Requirements)
- AC7110/9 - Percussion Stud Welding:
 - Baseline (All Audits)
- AC7110/12 - Welder/Welding Operator Qualifications:
 - Baseline (All Audits)
 - Qualification of Titanium Welders (Additional Requirements)
- AC7110/13 - Metallurgical Evaluation of Welds:
 - Evaluation of Electron Beam / Laser Welds (identify if process is used)
 - Evaluation of Fusion Welds (identify if process is used)
 - Evaluation of Resistance Welds (identify if process is used)
 - Evaluation of Welder / Welding Operator Qualifications (identify if process is used)

**CRIAA Honeywell Nanjing
PuKou Zone
Building #1, Nanjing High & New Technology
Industrial Development Zone P.O. Box 3209-16
Nanjing, JiangSu 210061 P.R. China**

Chemical Processing, Heat Treating, Nondestructive 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)

- AC7108 - Anodizing: AMS 2470, AMS 2471, MIL-A-8625, Customer Specification / Other
Chemical Cleaning: Solvent, Ultrasonic, Customer Specification / Other
Conversion/Phosphate Coatings: AMS 2473, AMS 2474, MIL-C-5541,
Customer Specification / Other
Surface Treatment/Passivation: AMS QQ-P-35, QQ-P-35, Customer
Specification / Other
- AC7108/1 - Paint & Dry Film Coatings: Dry Film Coatings (Customer Specification / Other),
Paint (Customer Specification / Other)

Heat Treating (AC7102)

- AC7102/2 - Aluminum Alloys: AMS 2770, Customer Specification / Other
- AC7102 - Nickel and Cobalt Alloys: Customer Specification / Other
Stainless Steels: AMS 2759/4
Stainless and pH Stainless Steels: (Age, Anneal, and/or Stress Relieve),
AMS-H-6875 CL-D, AMS 2759/3
Steels: (Air Atmosphere Only), (Normalize, Anneal, Stress Relieve, or Temper)
- AC7102/5 - Hardness Testing for Heat Treating:
Hardness – Brinell
Hardness – Rockwell
- AC7102S - Supplemental Audit Criteria for Heat Treating
U00 - None

NonDestructive Testing (AC7114 / AC7114 S)

- AC7114 - Nadcap Nondestructive Testing (NDT) Suppliers Accreditation Program Audit
Criteria
- AC7114S - S-U1 Honeywell
- AC7114/1 - Liquid Penetrant
- AC7114/1 S - S-U1 Honeywell
- AC7114/4 - Radiography
- AC7114/4 S - S-U1 Honeywell

Welding (AC7110)

- AC7110/1 - Brazing:
 - Baseline (All Audits)
 - Induction (Additional Requirements)
 - Semi-automatic / automatic (Additional Requirements)
- AC7110/5 - Fusion Welding:
 - Baseline (All Audits)
 - Automatic / Semi-automatic (Additional Requirements)
 - Filler Materials (Additional Requirements)
 - Processes Using Gas (For Example GTAW, PAW) (Additional Requirements)
 - Tack Welding (Additional Requirements)
 - Verification of Defect Removal (Additional Requirements)
 - Traceability of Filler Material Heat Lot (Additional Requirements)
 - Filler Material Approved Sources (Additional Requirements)
- AC7110/12 - Welder/Welding Operator Qualification:
 - Baseline (All Audits)
- AC7110/13 - Metallurgical Evaluation of Welds:
 - Evaluation of Welder / Welding Operators Qualifications

Honeywell Aerospace
111 South 34th Street – GENERAL (102, 103, 404)
Phoenix, Arizona 85034

Materials Testing Laboratories

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

Materials Testing Laboratories (AC7101)

- AC7006 - TESTING
- AC7101/1 - General Requirements for All Laboratories
- AC7101/3 - Mechanical Testing:
 - (A) Room Temperature Tensile
 - (XE) Crack Propagation Measurement
 - (XN) Bend Testing
 - (Y) Low Cycle Fatigue
- AC7101/4 - Metallography and Microhardness:
 - (L) Metallography (General)
 - (L1) Microhardness
 - (L5) Near Surface Examinations – Microhardness
 - (L6) Near Surface Examinations - Diffusion Coatings
 - (L7) Near Surface Examinations - IGA/IGO
 - (L8) Near Surface Examination - Alpha Case: Wrought
 - (XL) Metallography (Macro)
- AC7101/5 - Hardness Testing:
 - (M2) Rockwell Hardness
 - (M3) Vickers Hardness
- AC7101/6 - Corrosion:
 - (Q) Corrosion (General)
- AC7109/5 - Coating Evaluation Laboratory Practices: Hardness – Rockwell, Metallography, Thickness – Metallographic

Honeywell Aerospace
111 South 34th Street – 102 COE
Phoenix, Arizona 85034

Chemical Processing, Coatings, Heat Treating, Nondestructive 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:

Chemical Processing (AC7108) – Audit #129756

- AC7108 - Anodizing: AMS 2469, AMS 2470, AMS 2471, AMS 2472, AMS-A-8625, MIL-A-8625, MIL-M-45202
Chemical Cleaning:
Acid
Alkaline
Solvent
Titanium: (Acid, Alkaline)
Customer Specification / Other
Conversion/Phosphate Coatings: AMS 2473, MIL-C-5541, MIL-M-3171
- AC7108/1 - Painting & Dry Film Coatings: MIL-C-8514, MIL-L-46147, MIL-P-53022, MIL-PRF-22750, MIL-PRF-46010, MIL-PRF-46147, MIL-PRF-81329, MIL-PRF-85285, Paint – Customer Specification / Other, Dry Film Coatings – Customer Specification / Other
- AC7108/2 - Etching: Blue Etch Anodize, Local (Swab) Etch, Pre-Penetrant, Customer Specification / Other

Coatings (AC7109)

- AC7109 - Criteria for Coatings
- AC7109/1 - Thermal Spray:
High Velocity Oxy Fuel (HVOF) / Detonation Gun Spray
Oxy/Fuel Wire Spray
Oxy/Fuel Powder Spray
Plasma Thermal Spray

Heat Treating (AC7102)

- AC7102 - Nickel & Cobalt Alloys: (Age, Anneal & Stress Relieve)
- AC7102S - Supplemental Audit Criteria for Heat Treating
U00 - None

Approval Date: August 13, 2009
Expiration Date: July 31, 2010

Audit #131609
Certificate #131609

NonDestructive Testing (AC7114 / AC7114 S)

AC7114 - Nadcap Nondestructive Testing (NDT) Suppliers Accreditation Program Audit
Criteria
AC7114S - S-U1 Honeywell
AC7114/1 - Liquid Penetrant
AC7114/1 S - S-U1 Honeywell
AC7114/4 - Radiography
AC7114/4 S - S-U1 Honeywell

Surface Enhancement (AC7117)

AC7117/2 - Automated

Welding (AC7110)

AC7110/3 - Electron Beam Welding:
Baseline (All Audits)
Stress Relieve (Additional requirements)

Honeywell Aerospace
111 South 34th Street - 103 COE
Phoenix, Arizona 85034

**Chemical Processing, Heat Treating, Nondestructive 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:

Chemical Processing (AC7108) – Audit #129756

- AC7108 - Chemical Cleaning:
Acid
Alkaline
Semi-Aqueous
Customer Specification / Other
Conversion/Phosphate Coatings:
AMS 2485
MIL-DTL-13924
Plating:
Brush – MIL-STD-865
Cadmium – QQ-P-416, AMS-QQ-P-416
Chromium – AMS 2406, AMS 2460
Copper – AMS 2418
Electroless Plating Nickel – AMS 2404, MIL-C-26074, AMS-C-26074
Gold – AMS 2422,
Lead – Customer Specification / Other
Nickel – Customer Specification / Other
Silver – AMS 2410, AMS 2411, AMS 2412, QQ-S-365
- AC7108/2 - Etching: Nital

Heat Treating (AC7102)

- AC7102 - Cryogenic Treatments
Die/Press Quench
Induction Heat Treating
Nickel & Cobalt Alloys: Customer Specifications / Other
Stainless Steels: AMS 2759/4
Stainless and PH Stainless Steels: AMS 2759/3, Customer Specifications / Other
Steels: AMS 2759/1, AMS 2759/2, Customer Specifications / Other
Vacuum Heat Treating: Customer Specification / Other
- AC7102S - Supplemental Audit Criteria for Heat Treating
U00 - None
- AC7102/3 - Carburizing:
AMS 2759/7
Customer Specification / Other
- AC7102/4 - Gas AND/OR Ion Nitriding
Nitriding: AMS 2759/6, Customer Specification / Other

Approval Date: August 13, 2009
Expiration Date: July 31, 2010

Audit #131609
Certificate #131609

Heat Treating (AC7102) (Cont'd)

AC7102/5 - Hardness Testing for Heat Treating:
Hardness – Rockwell

NonDestructive Testing (AC7114 / AC7114 S)

AC7114 - Nadcap Nondestructive Testing (NDT) Suppliers Accreditation Program Audit
Criteria

AC7114S - S-U1 Honeywell

AC7114/1 - Liquid Penetrant

AC7114/1 S - S-U1 Honeywell

AC7114/2 - Magnetic Particle

AC7114/2 S - S-U1 Honeywell

Surface Enhancement (AC7117)

AC7117/1 - Computer Controlled

AC7117/2 - Automated

Welding (AC7110)

AC7110/1 - Brazing:
Baseline (All Audits)
GTA Tack Welding (Additional Requirements)
Induction (Additional Requirements)
Semi-automatic / automatic (Additional Requirements)

AC7110/5 - Fusion Welding:
Baseline (All Audits)
Automatic / Semi-Automatic (Additional Requirements)
Processes Using Gas (for example, GTAW, PAW) (Additional Requirements)
Tack Welding (Additional Requirements)

Honeywell Aerospace
111 South 34th Street - 404 COE
Phoenix, Arizona 85034

**Chemical Processing, Coating, Heat Treating, Nonconventional Machining,
Nondestructive 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 #129756

- AC7108 - Chemical Cleaning:
Acid
Alkaline
Semi-Aqueous
Solvent
Titanium: (Acid, Alkaline)
Plating:
Brush – MIL-STD-865
Surface Treatment/Passivation – Customer Specification / Other
- AC7108/2 - Etching: Pre-Penetrant, Customer Specification / Other

Coatings (AC7109)

- AC7109/1 - Thermal Spray:
Electric Arc Wire Spray
Oxy/Fuel Wire Spray
Oxy/Fuel Powder Spray
Plasma Thermal Spray

Heat Treating (AC7102)

- AC7102 - Nickel and Cobalt Alloys: Customer Specifications / Other
Plating
Stainless Steels: AMS 2759/4
Stainless and PH Stainless Steels: AMS 2759/3, Customer Specifications / Other
Steels: AMS 2759/1, AMS 2759/2, Customer Specifications / Other
Titanium Alloys: AMS-H-81200, (No Water Quench) Customer Specification / Other
Vacuum Heat Treating: Customer Specification / Other
- AC7102/1 - Brazing:
Plating - Brush Nickel
Vacuum Furnace Brazing
- AC7102/5 - Hardness Testing for Heat Treating:
Hardness – Rockwell
- AC7102S - Supplemental Audit Criteria for Heat Treating
U00 – None

Nonconventional Machining (AC7116)

AC7116/4 - Laser Beam Machining (LBM):
Cutting
Drilling

NonDestructive Testing (AC7114 / AC7114 S)

AC7114 - Nadcap Nondestructive Testing (NDT) Suppliers Accreditation Program Audit
Criteria

AC7114S - S-U1 Honeywell

AC7114/1 - Liquid Penetrant

AC7114/1 S - S-U1 Honeywell

AC7114/4 - Radiography

AC7114/4 S - S-U1 Honeywell

Welding (AC7110)

AC7110/3 - Electron Beam Welding
Baseline (All Audits)
GTA Tack Welding (Additional Requirements)
Stress Relieve (Additional Requirements)

AC7110/4 - Resistance Welding:
Baseline (All Audits)
Seam Welding (identify if this process is used)
Shear Testing (Additional Requirements)
Spot Welding (identify if this process is used)
GTA Tack Welding (Additional Requirements)

AC7110/5 - Fusion Welding:
Baseline (All Audits)
Automatic / Semi-Automatic (Additional Requirements)
Titanium (Additional Requirements)
Filler Materials (Additional Requirements)
Processes Using Gas (for example, GTAW, PAW) (Additional Requirements)
Tack Welding (Additional Requirements)
Traceability of Filler Material Heat Lot (Additional Requirements)
Filler Material Approved Sources (Additional Requirements)

AC7110/12 - Welder/Welding Operator Qualification:
Baseline (All Audits)
Qualification of Titanium Welders (Additional Requirements)

AC7110/13 - Metallurgical Evaluation of Welds:
Evaluation of Welder / Welding Operator Qualifications (identify if this process
Is used)
Evaluation of Fusion Welds (identify if this process is used)
Evaluation of Electron Beam / Laser Welds (identify if this process is used)
Evaluation of Resistance Welds (identify if this process is used)

**Honeywell Aerospace
3475 Wesleyan Boulevard North
Rocky Mount, North Carolina 27804 USA**

Heat Treating, Nonconventional Machining, Nondestructive Testing and Welding

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

Heat Treating (AC7102)

- AC7102 - Stainless and PH Stainless Steels: (Age, Anneal, and/or Stress Relieve)
AMS 2759/3
- AC7102/1 - Brazing: Furnace, Vacuum Furnace Brazing
- AC7102/5 - Hardness Testing for Heat Treating:
Hardness – Rockwell
- AC7102S - Supplemental Audit Criteria for Heat Treating
U00 - None

Nonconventional Machining (AC7116) – Audit #129625

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

NonDestructive Testing (AC7114 / AC7114 S)

- AC7114 - Nadcap Nondestructive Testing (NDT) Suppliers Accreditation Program Audit Criteria
- AC7114/1 - Liquid Penetrant
- AC7114/2 - Magnetic Particle

Welding (AC7110)

- AC7110/1 - Brazing:
Baseline (All Audits)
Torch (Additional Requirements)
Induction (Additional Requirements)
Stress Relieve (Additional Requirements)
- AC7110/5 - Fusion Welding:
Baseline (All Audits)
Automatic / Semi-automatic (Additional Requirements)
Filler Materials (Additional Requirements)
Processes Using Gas (For Example GTAW, PAW) (Additional Requirements)
Stress Relieve (Additional Requirements)
Tack Welding (Additional Requirements)

Approval Date: August 13, 2009
Expiration Date: July 31, 2010

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Welding (AC7110) (Cont'd)

- AC7110/6 - Laser Welding:
Baseline (All Audits)
Stress Relieve (Additional Requirements)
- AC7110/12 - Welder/Welding Operator Qualifications:
Baseline (All Audits)

**Honeywell (Singapore) Pte Ltd - ESA
Division of Honeywell Aerospace
7 Joo Koon Circle
Singapore, Singapore 629039**

**Chemical Processing, Heat Treating, Nondestructive 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)

- AC7108 - Anodizing: AMS 2482, AMS 2470, AMS 2471, AMS 2472, MIL-A-8625
Customer Specification / Other
Conversion/Phosphate Coatings: MIL-C-5541
Plating: Chromium (QQ-C-320), Electroless Nickel (AMS 2404, AMS-C-26074,
MIL-C-26074, Customer Specification / Other)
Surface Treatment/Passivation: AMS-QQ-P-35, QQ-P-35,
Customer Specification / Other
- AC7108/1 - Painting & Dry Film Coatings: MIL-F-18264
Paint - Customer Specification / Other
Dry Film Coatings – Customer Specification / Other

Heat Treating (AC7102)

- AC7102 - Cryogenic Treatments
Nickel and Cobalt Alloys: (Age, Anneal, & Stress Relieve), (Casting Only), AMS
2774, Customer Specifications / Other
Stainless Martensitic Steels: AMS 2759/5
Stainless Steels: Customer Specifications
Stainless and PH Stainless Steels: AMS-H-6875 CL-C, AMS-H-6875 CL-D, AMS
2759/3, Customer Specifications
Steels: (Normalize, Anneal, Stress Relieve, or Temper), AMS 2759/1,
AMS 2759/2, Customer Specifications
- AC7102S - Nadcap Supplemental Audit Criteria for Heat Treating:
U00 - None
- AC7102/1 - Brazing: Vacuum Furnace Brazing
- AC7102/5 - Hardness Testing for Heat Treating:
Hardness - Rockwell

NonDestructive Testing (AC7114 / AC7114 S)

- AC7114 - Nadcap Nondestructive Testing (NDT) Suppliers Accreditation Program Audit Criteria
- AC7114S - S-U1 Honeywell
- AC7114/1 - Liquid Penetrant
- AC7114/1S - S-U1 Honeywell
- AC7114/2 - Magnetic Particle
- AC7114/2S - S-U1 Honeywell

Welding (AC7110)

- AC7110/5 - Fusion Welding:
 - Baseline (All Audits)
 - Filler Materials (Additional Requirements)
 - Processes Using Gas (For Example GTAW, PAW) (Additional Requirements)
 - Pre/Interpass Heat Treatment (Additional Requirements)
 - Stress Relieve (Additional Requirements)
 - Tack Welding (Additional Requirements)
 - Traceability of Filler Material Heat Lot (Additional Requirements)
 - Filler Material Approved Sources (Additional Requirements)
 - Non-Nadcap Accredited Metallurgical Test Laboratories (Additional Requirements)
- AC7110/12 - Welder/Welding Operator Qualifications:
 - Baseline (All Audits)
 - Non-Nadcap Accredited Metallurgical Test Laboratories (Additional Requirements)
- AC7110/13 - Metallurgical Evaluation of Welds:
 - Evaluation of Welder / Welding Operator Qualifications (identify if this process is used)
 - Evaluation of Fusion Welds (identify if this process is used)

**Honeywell Aerospace South Bend
Aircraft Landing Systems
3520 Westmoor Street
South Bend, Indiana 46628**

Chemical Processing, Materials Testing, Nondestructive Testing, and Surface Enhancement

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

Chemical Processing (AC7108)

- AC7108 - Anodizing: Customer Specification / Other
- AC7108/1 - Painting & Dry Film Coatings: Customer Specification / Other
- AC7108/2 - Etching: Pre-penetrant Etch

Materials Testing Laboratories (AC7101)

- AC7006 - TESTING
- AC7101/1 - General Requirements for All Laboratories
- AC7101/2 - Chemical Testing:
 - (G1) Elemental Analysis – Carbon
 - (G5) Elemental Analysis – Sulfur
 - (S) X-Ray Fluorescence
- AC7101/3 - Mechanical Testing:
 - (O) High Cycle Fatigue
- AC7101/4 - Metallography and Microhardness
 - (L) Metallography (General)
 - (L1) Microhardness
 - (L2) Near Surface Examinations – Alloy Depletion
 - (L3) Near Surface Examinations – Oxidation
 - (L5) Near Surface Examinations – Microhardness
 - (L6) Near Surface Examinations – Diffusion Coatings
 - (L7) Near Surface Examinations – IGA/IGO
 - (L8) Near Surface Examinations – Alpha Case: Wrought
 - (L9) Near Surface Examinations – Alpha Case: Castings
- AC7101/5 - Hardness:
 - (M1) Brinell Hardness
 - (M2) Rockwell Hardness
- AC7110/13 - Metallurgical Evaluation of Welds:
 - Evaluation of Fusion Welds (identify if this process is used)
 - Evaluation of Electron Beam / Laser Welds (identify if this process is used)
 - Evaluation of Resistance Welds (identify if this process is used)
 - Design Authority Authorization (identify if this process is used)

Approval Date: August 13, 2009
Expiration Date: July 31, 2010

Audit #131609
Certificate #131609

NonDestructive Testing (AC7114 / AC7114 S)

AC7114 - Nadcap Nondestructive Testing (NDT) Suppliers Accreditation Program Audit
Criteria
AC7114/1 - Liquid Penetrant
AC7114//2 - Magnetic Particle

Surface Enhancement (AC7117) – Audit #129620

AC7117/2 - Automated

**Honeywell CATIC Engine (Suzhou)
Division of Honeywell Aerospace
1 Hai Tang Street Industrial Park
Suzhou Jiangsu 215021 P.R. China**

**Chemical Processing, Heat Treating, NonDestructive 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)

- AC7108 - Anodizing: MIL-A-8625, AMS 2469, AMS 2471, AMS 2472
Chemical Cleaning: Acid, Alkaline, Semi-Aqueous, Solvent
Conversion/Phosphate Coatings: AMS 2473, AMS 2474, MIL-C-5541
- AC7108/1 - Dry Film Coatings: Customer Specification / Other
Painting: Customer Specification / Other

Heat Treating (AC7102)

- AC7102 - Nickel and Cobalt Alloys: (Age, Anneal, & Stress Relieve)
Vacuum Heat Treating (Commercial)
- AC7102S - Nadcap Supplemental Audit Criteria for Heat Treating:
U00 - None

NonDestructive Testing (AC7114 / AC7114 S)

- AC7114 - Nadcap Nondestructive Testing (NDT) Suppliers Accreditation Program Audit
Criteria
- AC7114S - S-U1 Honeywell
- AC7114/1 - Liquid Penetrant
- AC7114/1 S - S-U1 Honeywell
- AC7114/2 - Magnetic Particle
- AC7114/2 S - S-U1 Honeywell

Welding (AC7110)

- AC7110/5 - Fusion Welding:
Baseline (All Audits)
Filler Materials (Additional Requirements)
Processes Using Gas (For Example GTAW, PAW) (Additional Requirements)
Verification of Defect Removal (Additional Requirements)
Traceability of Filler Material Heat Lot (Additional Requirements)
Filler Material Approved Sources (Additional Requirements)
Non-Nadcap Accredited Metallurgical Test Laboratories
(Additional Requirements)

Approval Date: August 13, 2009
Expiration Date: July 31, 2010

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Certificate #131609

Welding (AC7110) (Cont'd.)

- AC7110/12 - Welder / Welding Operator Qualifications
Baseline (All Audits)
Non-Nadcap Accredited Metallurgical Test Laboratories (Additional Requirements)
- AC7110/13 - Metallurgical Evaluation of Welds
Evaluation of Welder / Welding Operator Qualifications (identify if this process is used)
Evaluation of Fusion Welds (identify if this process is used)

**Honeywell Aerospace
1300 West Warner Road
Tempe, Arizona 85285 USA**

**Chemical Processing, Heat Treating, Materials Testing Laboratories,
NonDestructive 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:

Chemical Processing (AC7108)

- AC7108 - Anodizing: AMS-A-8625, MIL-A-8625
Chemical Cleaning: Acid, Alkaline, Semi-Aqueous, Solvent
Chromium Plating: AMS 2406, QQ-C-320, AMS-QQ-C-320
Conversion/Phosphate Coatings: MIL-C-5541, MIL-DTL-5541
Surface Treatment/Passivation: AMS-QQ-P-35, QQ-P-35
- AC7108/1 - Painting & Dry Film Coatings:
MIL-C-22750, MIL-C-85285, MIL-F-18264, MIL-L-40610, MIL-L-8937,
MIL-P-23377
Painting: Customer Specifications/Other
Dry Film Lube: Customer Specifications / Other

Heat Treating (AC7102)

- AC7102 - Nickel and Cobalt Alloys: (Age, Anneal, & Stress Relieve), AMS 2774
Stainless/Martensitic Steels: AMS 2759/5
Stainless Steels: AMS 2759/4
Stainless and PH Stainless Steels: (Age, Anneal, and/or Stress Relieve),
AMS 2759/3
- AC7102/5 - Hardness Testing for Heat Treating:
Hardness – Rockwell
- AC7102S - Nadcap Supplemental Audit Criteria for Heat Treating
U1 Honeywell
U3 Rolls-Royce plc
U10 GE Aviation
U11 The Boeing Company

Materials Testing Laboratories (AC7101)

- AC7006 - TESTING
- AC7101/1 - General Requirements for All Laboratories
- AC7101/3 - Mechanical Testing: (A) Room Temperature Tensile
- AC7101/4 - Metallography and Microhardness:
 - (L) Metallography (General)
 - (L1) Microhardness
- AC7101/5 - Hardness:
 - (M1) Brinell Hardness
 - (M2) Rockwell Hardness

NonDestructive Testing (AC7114 / AC7114 S)

- AC7114 - Nadcap Nondestructive Testing (NDT) Suppliers Accreditation Program Audit Criteria
- AC7114S - S-U1 Honeywell
- AC7114/1 - Liquid Penetrant
- AC7114/1S - S-U1 Honeywell
- AC7114/2 - Magnetic Particle
- AC7114/2S - S-U1 Honeywell
- AC7114/4 - Radiography
- AC7114/4S - S-U1 Honeywell

Surface Enhancement (AC7117)

- AC7117/2 - Automated

Welding (AC7110)

- AC7110/5 - Fusion Welding:
 - Baseline (All Audits)
 - Filler Materials (Additional Requirements)
 - Processes Using Gas (Additional Requirements)
 - Tack Welding (Additional Requirements)
 - Verification of Defect Removal (Additional Requirements)
 - Traceability of Filler Material Heat Lot (Additional Requirements)
 - Filler Material Approved Sources (Additional Requirements)
- AC7110/12 - Welder/Welding Operator Qualifications:
 - Baseline (All Audits)
- AC7110/13 - Metallurgical Evaluation of Welds:
 - Evaluation of Welder / Welding Operator Qualifications (identify if this process is used)
 - Evaluation of Fusion Welds (identify if this process is used)

Approval Date: August 13, 2009
Expiration Date: July 31, 2010

Audit #131609
Certificate #131609

**Honeywell - Toronto
Division of Honeywell Aerospace
3333 Unity Drive
Mississauga, Ontario Canada L5L 3S6**

Chemical Processing and Welding

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

Chemical Processing (AC7108)

AC7108/1 - Painting & Dry Film Coatings: Customer Specifications / Other

Welding (AC7110) – Audit #129621

- AC7110/5 - Fusion Welding:
Baseline (All Audits)
Filler Materials (Additional Requirements)
Processes Using Gas (For Example GTAW, PAW) (Additional Requirements)
Tack Welding, (Additional Requirements)
Traceability of Filler Material Heat Lot (Additional Requirements)
- AC7110/6 - Laser Welding:
Baseline (All Audits)
- AC7110/12 - Welder/Welding Operator Qualifications:
Baseline (All Audits)

Honeywell Aerospace
2525 W. 190th Street
Torrance, California 90504 USA

**Chemical Processing, Heat Treating, Materials Testing Laboratories,
NonDestructive 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)

- AC7108 - Chemical Cleaning: ASTM B600
Conversion Phosphate Coatings: AMS-M-3171, MIL-C-5541
Surface Treatment/Passivation: AMS-QQ-P-35
- AC7108/1 - Painting/Dry Film Coatings: A-A 59166, MIL-C-46168, MIL-C-8514,
MIL-DTL-53022, MIL-DTL-53030, MIL-DTL-53039, MIL-L-23398,
MIL-PRF-22750, MIL-PRF-23377, MIL-PRF-46010, MIL-PRF-81329,
MIL-PRF-85285, MIL-PRF-85582, TT-P-28
Paint – Customer Specification / Other
- AC7108/2 - Etching: Pre-Penetrant Etch

Heat Treating (AC7102)

- AC7101/3 - Materials Test Laboratories – Mechanical Testing:
(A) RT Tensile Testing
- AC7101/4 - Materials Test Laboratories – Metallography and Microhardness
(L) Metallography (General)
(L5) Near Surface Examinations – Microhardness
(L6) Near Surface Examinations – Diffusion Coating
(L7) Near Surface Examinations – IGA/IGO
(L8) Near Surface Examinations – Alpha Case: Wrought
(L9) Near Surface Examinations – Alpha Case: Casting
- AC7102/2 - Aluminum Alloys: AMS 2770, Customer Specifications / Other
- AC7102/1 - Brazing: Dip Brazing, Furnace Brazing, Vacuum Furnace Brazing
- AC7102 - Nickel and Cobalt Alloys: (Age, Anneal & Stress Relieve), AMS 2774,
Customer Specifications / Other
Stainless Steels: AMS-H-6875 CL-C, Customer Specifications / Other
Stainless and PH Stainless Steels: (Age, Anneal and/or Stress Relieve),
AMS-H-6875 CL-D, AMS 2759/3, Customer Specifications / Other
Titanium Alloys: (Age, Anneal and/or Duplex Anneal, & Stress Relieve),
No Water Quench, AMS 2801
Vacuum Heat Treating – Customer Specifications / Other
- AC7102/5 - Hardness Testing for Heat Treating:
Hardness – Rockwell
Hardness – Vickers
- AC7102S - Nadcap Supplemental Audit Criteria for Heat Treating:
U00 - None

Materials Testing Laboratories (AC7101)

- AC7006 - TESTING
- AC7101/1 - General Requirements for all Laboratories
- AC7101/3 - Mechanical Testing:
 - (A) Room Temperature Tensile
 - (XN) Bend Testing
- AC7101/4 - Metallography and Microhardness:
 - (L) Metallography (General)
 - (L1) Microhardness
 - (L5) Near Surface Examinations – Microhardness
 - (L6) Near Surface Examinations - Diffusion Coating
 - (L7) Near Surface Examinations - IGA/IGO
- AC7101/5 - Hardness Testing:
 - (M2) Rockwell Hardness

NonDestructive Testing (AC7114 / AC7114 S)

- AC7114 - Nadcap Nondestructive Testing (NDT) Suppliers Accreditation Program Audit Criteria
- AC7114/1 - Liquid Penetrant
- AC7114/4 - Radiography

Welding (AC7110)

- AC7110/1 - Brazing:
 - Baseline (All Audits)
 - Torch (Additional Requirements)
- AC7110/3 - Baseline (All Audits)
 - Filler Materials (Additional requirements)
- AC7110/4 - Resistance Welding (Spot, Seam, Projection):
 - Baseline (All Audits)
 - Spot Welding (Additional Requirements)
 - Seam Welding (Additional Requirements)
 - Shear Testing (Additional Requirements)
 - GTA Tack Welding (Additional Requirements)
- AC7110/5 - Fusion Welding:
 - Baseline (All Audits)
 - Automatic / Semi-Automatic (Additional Requirements)
 - Titanium (Additional Requirements)
 - Filler Materials (Additional Requirements)
 - Tack Welding (Additional Requirements)
 - Verification of Defect Removal (Additional Requirements)
 - Traceability of Filler Material Heat Lot (Additional Requirements)
 - Processes using Gas (for Example GTAW, PAW) (Additional Requirements)
 - Pre/Interpass Heat Treatment (Additional Requirements)
 - Stress Relieve (Additional Requirements)

Welding (AC7110) (Cont'd.)

AC7110/12 - Welder/Welding Operator Qualification:

Baseline (All Audits)

Qualification of Titanium Welders (Additional Requirements)

AC7110/13 - Metallurgical Evaluation of Welds:

Evaluation of Welder / Welding Operator Qualifications (identify if this process is used)

Evaluation of Fusion Welds (identify if this process is used)

Evaluation of Electron Beam / Laser Welds (identify if this process is used)

Evaluation of Resistance Welds (identify if this process is used)

Approval Date: August 13, 2009
Expiration Date: July 31, 2010

Audit #131609
Certificate #131609

**Honeywell Aerospace
11100 N. Oracle Road
Tuscon, Arizona 85737 USA**

Welding

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

Welding (AC7110)

AC7110/1 - Brazing:
Baseline (All Audits)
Torch (Additional Requirements)
Induction (Additional Requirements)

**Honeywell Aerospace - LORI
Division of Honeywell International
6930 N. Lakewood
Tulsa, Oklahoma 74117**

Heat Treating, Nondestructive Testing and Welding

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

Heat Treating (AC7102)

- AC7102 - Brazing – AC7102/1 must also be selected
- AC7102/1 - Brazing: Vacuum Furnace Brazing
- AC7102S - Nadcap Supplemental Audit Criteria for Heat Treating:
U00 - None

NonDestructive Testing (AC7114 / AC7114 S)

- AC7114 - Nadcap Nondestructive Testing (NDT) Suppliers Accreditation Program Audit Criteria
- AC7114/1 - Liquid Penetrant

Welding (AC7110)

- AC7110/5 - Fusion Welding:
Baseline (All Audits)
Filler Materials (Additional Requirements)
Processes Using Gas (For Example GTAW, PAW) (Additional Requirements)
Tack Welding (Additional Requirements)
Traceability of Filler Material Heat Lot (Additional Requirements)
- AC7110/12 - Welder/Welding Operator Qualification:
Baseline (All Audits)

**Honeywell Aerospace
Electronics & Lighting
515 N. Russell Street
Urbana, Ohio 43078 USA**

Chemical Processing, Heat Treating, and Nondestructive 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)

AC7108 - Anodizing: AMS-A-8625, MIL-A-8625, Customer Specification / Other
Conversion/Phosphate Coatings: MIL-C-13924, MIL-DTL-5541, MIL-C-5541,
Customer Specification / Other
Plating:
Cadmium – AMS-QQ-P-416, QQ-P-416, Customer Specification / Other
Nickel – AMS-QQ-N-290, QQ-N-290, Customer Specification / Other
Tin – ASTM B 545, MIL-T-10727, Customer Specification / Other
Stripping: Customer Specification / Other
Surface Treatment/Passivation: AMS-QQ-P-35, QQ-P-35, Customer
Specification / Other

Heat Treating (AC7102)

AC7102/2 - Aluminum Alloys: (Anneal and/or Stress Relieve), AMS 2770,
Customer Specifications / Other
AC7102 - Beryllium Copper: (Age Only), Customer Specifications / Other
Copper Alloys: (Stress and/or Anneal)
Stainless Steels: AMS 2759/4, AMS-H-6875 CL-C, Customer Specifications /
Other
Stainless and PH Stainless Steels: AMS 2759/3, Customer Specifications / Other
AC7102/5 - Hardness Testing for Heat Treating:
Hardness – Rockwell
AC7102S - Nadcap Supplemental Audit Criteria for Heat Treating:
U00 - None

NonDestructive Testing (AC7114 / AC7114 S)

AC7114 - Nadcap Nondestructive Testing (NDT) Suppliers Accreditation Program Audit
Criteria
AC7114S - S-U8 Airbus
S-U11 The Boeing Company
AC7114/1 - Liquid Penetrant
AC7114/1 S - S-U8 Airbus
S-U11 The Boeing Company

**Honeywell Aerospace – Waterford
Division of Honeywell Aerospace
Cold Section Airfoils CoE
Unit 328 Cork Road Industrial Estate
Waterford, Ireland**

**Chemical Processing, Heat Treating, Materials Testing Laboratories,
NonDestructive Testing and Surface Enhancement**

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

Chemical Processing (AC7108)

- AC7108 - Chemical Cleaning: Acid, Alkaline, Titanium (Acid, Alkaline), Ultrasonic Surface Treatment/Passivation: ASTM A 967, Customer Specification / Other
- AC7108/1 - Painting & Dry Film Coatings:
 - Dry Film Coatings - Customer Specification / Other
 - Painting – Customer Specification / Other
- AC7108/2 - Etching: Pre-Penetrant, Customer Specification / Other

Heat Treating (AC7102)

- AC7101/4 - Materials Test Laboratories – Metallography and Microhardness:
 - (L) Metallography (General)
 - (L8) Near Surface Examinations – Alpha Case: Wrought
- AC7102 - Stainless and PH Stainless Steels: Customer Specification / Other
Titanium Alloys: (Age, Anneal, and/or Duplex Anneal, & Stress Relieve)
- AC7102/5 - Hardness Testing for Heat Treating:
 - Hardness – Rockwell
- AC7102S - Nadcap Supplemental Audit Criteria for Heat Treating:
 - U00 - None

Materials Testing Laboratories (AC7101) – Audit #129619

- AC7006 – TESTING
- AC7101/1 - General Requirements for all Laboratories
- AC7101/2 - Chemical Testing:
 - (G2) Elemental Analysis - Hydrogen
- AC7101/4 - Metallography & Microhardness:
 - (L) Metallography (General)
 - (L8) Near Surface Examinations – Alpha Case: Wrought
 - (XL) Metallography (Macro)
- AC7101/5 - Hardness Testing:
 - (M2) Rockwell Hardness

Approval Date: August 13, 2009
Expiration Date: July 31, 2010

Audit #131609
Certificate #131609

NonDestructive Testing (AC7114 / AC7114 S)

AC7114 - Nadcap Nondestructive Testing (NDT) Suppliers Accreditation Program Audit
Criteria

AC7114S - S-U1 Honeywell

AC7114/1 - Liquid Penetrant

AC7114/1 S - S-U1 Honeywell

Surface Enhancement (AC7117)

AC7117/2 - Automated

**Honeywell Aerospace – SECAN
Division of Honeywell International
1 rue de l’Usine
Witry-Les-Reims, France 51420**

Chemical Processing, Heat Treating, Nondestructive 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)

- AC7108 - Chemical Cleaning: Acid, Alkaline
Conversion/Phosphate Coatings: MIL-C-5541
- AC7108/1 - Painting & Dry Film Coatings: MIL-C-83286, MIL-P-23377, MIL-P-7962,
MIL-PRF-85285, Paint - Customer Specification / Other

Heat Treating (AC7102)

- AC7102 - Aluminum Alloys: AC7102/2 must also be selected
- AC7102/2 - Aluminum Alloys: Customer Specification / Other
- AC7102/5 - Hardness Testing for Heat Treating:
Hardness - Brinell
- AC7102S - Nadcap Supplemental Audit Criteria for Heat Treating:
U00 - None

Nondestructive Testing (AC7114 / AC7114 S)

- AC7114 - Nadcap Nondestructive Testing (NDT) Suppliers Accreditation Program Audit
Criteria
- AC7114/1 - Liquid Penetrant
- AC7114/4 - Radiography

Welding (AC7110)

- AC7110/4 - Resistance Welding:
Baseline (All Audits)
Spot Welding (identify if this process is used)
Aluminum / Magnesium (Additional Requirements)
Shear Testing (Additional Requirements)

Welding (AC7110) (Cont'd.)

- AC7110/5 - Fusion Welding:
 - Baseline (All Audits)
 - Automatic / Semi-automatic (Additional Requirements)
 - Filler Materials (Additional Requirements)
 - Processes Using Gas (For Example GTAW, PAW) (Additional Requirements)
 - Tack Welding (Additional Requirements)
 - Verification of Defect Removal (Additional Requirements)
 - Traceability of Filler Material Heat Lot (Additional Requirements)
 - Filler Material Approved Sources (Additional Requirements)
 - Stress Relieve (Additional Requirements)
- AC7110/12 - Welder/Welding Operator Qualifications:
 - Baseline (All Audits)
- AC7110/13 - Metallurgical Evaluation of Welds:
 - Evaluation of Resistance Welds (identify if this process is used)

**Honeywell Aerospace Yeovil
Division of Honeywell Aerospace
Bunford Lane
Yeovil, Somerset BA20 2YD, United Kingdom**

Chemical Processing, Materials Testing Laboratories, and Nondestructive 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)

- AC7108 - Anodizing: AMS-A-8625, MIL-A-8625, Customer Specification / Other
Chemical Cleaning: Ultrasonic, Customer Specification / Other
Conversion/Phosphate Coatings: MIL-C-5541, MIL-DTL-5541, Customer Specification / Other
Plating: Copper (Customer Specification / Other), Electroless Plating Nickel (Customer Specification / Other), Platinum (Customer Specification / Other), Silver (Customer Specification / Other), Tin (Customer Specification / Other)
Stripping: Customer Specification / Other
Surface Treatment / Passivation: AMS-QQ-P-35, QQ-P-35, Customer Specification / Other
- AC7108/1 - Painting & Dry Film Coatings: MIL-C-22750, MIL-C-83286, MIL-C-85285, MIL-F-18264, MIL-P-23377, Dry Film Coatings (Customer Specification / Other), Painting (Customer Specification / Other)
- AC7108/2 - Etch: Nital Etch

Materials Testing Laboratories (AC7101)

- AC7006 – TESTING
- AC7101/1 - General Requirements for All Laboratories
- AC7101/3 - Mechanical Testing:
(A) Room Temperature Tensile
- AC7101/4 - Metallography and Microhardness:
(L) Metallography (General)
(L1) Microhardness
(L5) Near Surface Examinations – Microhardness
- AC7101/5 - Hardness: (M3) Hardness – Vickers

Nondestructive Testing (AC7114 / AC7114 S) – Audit #129752

- AC7114 - Nadcap Nondestructive Testing (NDT) Suppliers Accreditation Program Audit Criteria
- AC7114/1 - Liquid Penetrant
- AC7114/2 - Magnetic Particle