

Merit

Merit



*This certificate is granted and awarded by the authority of the Nadcap Management Council to:*

**M.S. Aerospace**

13928 Balboa Blvd.  
Sylmar, CA 91342  
United States

*This certificate demonstrates conformance and recognition of accreditation for specific services as listed in [www.eAuditNet.com](http://www.eAuditNet.com) on the Qualified Manufacturers List (QML), to the revision in effect at the time of the audit for:*

**Chemical Processing**

Certification Number: 3484184952  
Expiration Date: 30 April 2021  
Accreditation Length: 18 Months



**Michael J. Hayward**  
Executive Vice President & Chief Operating Officer

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

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## **SCOPE OF ACCREDITATION**

### **Chemical Processing**

**M.S. Aerospace**  
13928 Balboa Blvd.  
Sylmar, CA 91342

This certificate expiration is updated based on periodic audits. The current expiration date and scope of accreditation are listed at: [www.eAuditNet.com](http://www.eAuditNet.com) - Online QML (Qualified Manufacturer Listing).

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

#### **AC7108 Rev H - Nadcap Audit Criteria for Chemical Processing (to be used on audits on/after 5 June 2016)**

##### **General Cleaning and Pre-Cleaning**

Alkaline Cleaning (If Titanium Alkaline Cleaning is also carried out then please check Chemical Cleaning – Titanium Cleaning – Alkaline” also)

Titanium Cleaning – Alkaline

Other Titanium Cleaning Alkaline

Ultrasonic Cleaning

Ovens Used for Thermal Treatments at a Set Point above 250°F

Ovens for Thermal Treatments with a set point at or below 250°F (121°C) or for Miscellaneous Heating Processes, e.g. Part Drying.

#### **AC7108/1 Rev C - Nadcap Audit Criteria for Painting & Dry Film Coatings (to be used on audits on/after 5 June 2016)**

##### **Dry Film Lubricant Coatings**

Other

#### **AC7108/4 Rev B - Nadcap Audit Criteria for Solution Analysis and Testing in Support of Chemical Processing to AC7108 (To Be Used On Audits Conducted On Or After June 5, 2016)**

##### **Solution Analysis In Support of AC7108**

##### **Testing Performed Internally In Support of the Chemical Process Accreditation**

B06 – Water Immersion / Humidity Testing In Support of AC7108

B10 – Adhesion Testing (Adhesion Tape Testing) In Support of AC7108

B11 – Adhesion Testing (Scratch and Chisel Test) In Support of AC7108

B14 – Conductivity Testing In Support of AC7108

B16 – Coating Thickness Measurement In Support of AC7108

**AC7108/12 - Nadcap Audit Criteria for Acid Cleaning, Descaling, Passivation and Electropolishing (to be used on audits on/after 5 June 2016)**

Passivation

Other Passivation

**AC7108/15 - Nadcap Audit Criteria for Pre-Penetrant Etch**

Immersion Pre penetrant Etch

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***Heat Treating***

Certificate Number: 3484197226  
Expiration Date: 30 November 2022  
Accreditation Length: 18 Months

**David L. Schutt, PhD**  
President

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

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## SCOPE OF ACCREDITATION

### Heat Treating

**M.S. Aerospace**  
13928 Balboa Blvd.  
Sylmar, CA 91342

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

#### **AC7102 Rev J - Nadcap Audit Criteria for Heat Treating Baseline (AC7102/S and AC7102/8 must also be selected) (to be used on audits on/after 3 December 2017)**

Nickel and Cobalt Alloys – Industry Specs – Check any applicable boxes

Industry Spec – Other

Nickel and Cobalt Alloys– Customer Specs

Stainless Steels, Austenitic – Industry Specs – Check any applicable boxes

Industry Spec – Other

Stainless Steels, Austenitic– Customer Specs

Stainless Steels, Martensitic – Customer Specs

Stainless Steels, Martensitic – Industry Specs – Check any applicable boxes

Industry Spec – Other

Stainless Steels, Precipitation Hardening – Customer Specs

Stainless Steels, Precipitation Hardening – Industry Specs – Check any applicable boxes

Industry Spec – Other

Steels – Industry Specs – Check any applicable boxes

Industry Spec – Other

Titanium Alloys – Customer Specs

Titanium Alloys – Industry Specs – Check any applicable boxes

Industry Spec – Other

Vacuum Heat Treating – Customer Specs

Vacuum Heat Treating – Industry Specs – Check any applicable boxes

#### **AC7102S Rev H - Nadcap Supplemental Audit Criteria for Heat Treating (to be used on audits on before 7 April, 2019)**

U14 SAFRAN Group  
U18 United Technologies Corp. – Hamilton Sundstrand  
U3 Rolls–Royce PLC  
U7 MTU Aero Engines GmbH

**AC7102/8 - Nadcap Audit Criteria for Heat Treating Pyrometry**

Pyrometry – Customer Specs

Pyrometry – Industry Specs – Check any applicable boxes

AMS2750



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***Materials Testing Laboratories***

Certification Number: 3484190604  
Expiration Date: 31 October 2021  
Accreditation Length: 24 Months



**Michael J. Hayward**  
Executive Vice President & Chief Operating Officer

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## **SCOPE OF ACCREDITATION**

### **Materials Testing**

**M.S. Aerospace**  
13928 Balboa Blvd.  
Sylmar, CA 91342

This certificate expiration is updated based on periodic audits. The current expiration date and scope of accreditation are listed at: [www.eAuditNet.com](http://www.eAuditNet.com) - Online QML (Qualified Manufacturer Listing).

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

#### **AC7101/1 Rev F - Nadcap Audit Criteria for Materials Testing Laboratories – General Requirements for All Laboratories (to be used on/after 14 Sept 2014)**

#### **AC7101/3 Rev C - Nadcap Audit Criteria for Materials Test Laboratories – Mechanical Testing (to be used on/after 28 August, 2011)**

- (A) Room Temperature Tensile
- (B) Elevated Temperature Tensile
- (C) Stress Rupture

#### **AC7101/4 Rev E - Nadcap Audit Criteria for Materials Test Laboratories – Metallography and Microindentation Hardness (to be used on/after 30 November 2014)**

- (L0) Metallographic Evaluation
- (XL) Macro Examination

#### **AC7101/7 Rev D - Nadcap Audit Criteria for Materials Test Laboratories – Mechanical Testing Specimen Preparation (to be used on audits on/after 15 May 2016)**

- (Z) Standard Specimen Machining

#### **AC7101/11 Rev C - Nadcap Audit Criteria for Materials Test Laboratories – Fastener Testing (to be used on audits on/after 25 October 2015)**

- (10) Stress Rupture
- (11) Fatigue
- (13) Shear Strength – Double Shear
- (18) Tensile Test – Elevated Temp Tensile



(31) Torque – Locking, Torque–Out  
(40L10) Metallography – Decarburization / Carburization  
(40L2) Metallography – Alloy Depletion  
(40L25) Metallography – Grain Size  
(40L3) Metallography – Oxidation / Corrosion  
(40L7) Metallography – IGA / IGO  
(40L8) Metallography –Alpha Case: Wrought Titanium  
(5) Stress Durability – External Threads  
(6–L5) Hardness – Microindentation Hardness  
(6–M2) Hardness – Rockwell  
(8–A) Tensile Test – Axial Tensile  
(8–P) Tensile Test – Proof Load (nuts / screws)  
(8–W) Tensile Test – Wedge Tensile  
(QF) Corrosion – Copper Sulfate

**ISO/IEC - Currently accredited by an ILAC approved source**

**Lab Type - Lab Type**

Captive

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***NonDestructive Testing***

Certificate Number: 3484193350  
Expiration Date: 30 April 2022  
Accreditation Length: 24 Months

**Michael J. Hayward**  
Executive Vice President & Chief Operating Officer

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## **SCOPE OF ACCREDITATION**

### **Materials Testing**

**M.S. Aerospace**  
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Sylmar, CA 91342

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#### **AC7101/1 Rev F - Nadcap Audit Criteria for Materials Testing Laboratories – General Requirements for All Laboratories (to be used on/after 14 Sept 2014)**

#### **AC7101/3 Rev C - Nadcap Audit Criteria for Materials Test Laboratories – Mechanical Testing (to be used on/after 28 August, 2011)**

- (A) Room Temperature Tensile
- (B) Elevated Temperature Tensile
- (C) Stress Rupture

#### **AC7101/4 Rev E - Nadcap Audit Criteria for Materials Test Laboratories – Metallography and Microindentation Hardness (to be used on/after 30 November 2014)**

- (L0) Metallographic Evaluation
- (XL) Macro Examination

#### **AC7101/7 Rev D - Nadcap Audit Criteria for Materials Test Laboratories – Mechanical Testing Specimen Preparation (to be used on audits on/after 15 May 2016)**

- (Z) Standard Specimen Machining

#### **AC7101/11 Rev C - Nadcap Audit Criteria for Materials Test Laboratories – Fastener Testing (to be used on audits on/after 25 October 2015)**

- (10) Stress Rupture
- (11) Fatigue
- (13) Shear Strength – Double Shear
- (18) Tensile Test – Elevated Temp Tensile

(31) Torque – Locking, Torque–Out  
(40L10) Metallography – Decarburization / Carburization  
(40L2) Metallography – Alloy Depletion  
(40L25) Metallography – Grain Size  
(40L3) Metallography – Oxidation / Corrosion  
(40L7) Metallography – IGA / IGO  
(40L8) Metallography –Alpha Case: Wrought Titanium  
(5) Stress Durability – External Threads  
(6–L5) Hardness – Microindentation Hardness  
(6–M2) Hardness – Rockwell  
(8–A) Tensile Test – Axial Tensile  
(8–P) Tensile Test – Proof Load (nuts / screws)  
(8–W) Tensile Test – Wedge Tensile  
(QF) Corrosion – Copper Sulfate

**ISO/IEC - Currently accredited by an ILAC approved source**

**Lab Type - Lab Type**

Captive