



160 Sweet Hollow Road Old Bethpage, NY 11804  
 (516) 752-7882 Fax (516) 249-7304

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### OEM Specification Process Approvals

Company	Process Designation	Description
Bendix Engines	9-7143	CrC/NiCr
Boeing Company, The	BAC 5851	Application of Thermal Spray
Boeing Commercial Air	Type I, Class I	WC/Co
Boeing Helicopter Division	Type I, Class 2	WC/Co HVOF
Boeing Helicopter Division	Type 2, Class I	Al/Brz
Boeing Helicopter Division	Type 15, Class 2	Triballoy T-400 HVOF
Boeing Helicopter Division	Type 17, Class 2	WC/Co/Cr HVOF
Boeing Company, The	BAC 5855	Grind & Super Finish Capability
Boeing Integrated Defense Systems	MAO 901-301	Diffused Disilicide
General Electric	F50TF10 CL-A (B50TF56 CL-A, B50TF52 CL-B)	75Ni25C
General Electric	F50TF10 CL-B (B50TF56 CL-A, B50TF52 CL-B)	75Ni/25C
General Electric	F50TF13 CL-A (B50TF72 CL-A)	Cu/Ni/In Coarse
General Electric	F50TF14 CL-A (B50TF28 CL-A)	CrC
General Electric	F50TF18 CL-A (B50TF56 CL-A / B50TF119 CL-A)	Dimensional Build-up
General Electric	F50TF18 CL-B (B50TF202 CL-B)	Dimensional Build-up
General Electric	F50TF22 CL-A (B50TF56 CL-A, B50TF53 CL-B)	85Ni/15C
General Electric	F50TF24 CL-B (B50TF119 CL-A / B50TF172 CL-A)	80Ni/20C
General Electric	F50TF25 CL-A (B50TF137 CL-A)	CrC/NiCr

<b>Company</b>	<b>Process Designation</b>	<b>Description</b>
General Electric	F50TF37 CL-A, CL-B (A50TF100)	Pack Diffused Chromide
General Electric	F50TF45 CL-B (B50TF190 CL-A)	Cobalt Base Alloy, 28Mo/17Cr/3Si
General Electric	F50TF50 CL-A (B50TF192 CL-A / A50TF278 CL-C)	YSZ TBC For P/N 1964M94 Only
General Electric	F50TF50 CL-B (B50TF192 CL-A / A50TF278 CL-C)	Yttria Stabilized Zirconia TBC
General Electric	F50TF68 CL-B	Vapor Phase Aluminide
General Electric	F50TF69 CL-C	HVOF T-800
General Electric	F50TF82 CL-B	Vapor Phase Chromide
General Electric	F50TF94 CL-A (B50TF161 CL-B)	Al/Brz Alloy
General Electric	P10TF1	Post Coating Heat Treatment
General Electric	P16TF5 CL-A (B50TF56 CL-A [F50TF22 CL-A] B50TF119 CL-A + B50TF164 CL-B)	Thermal Co-Spray
Goodrich	LGPS 1301	HVOF
Goodrich	LGPS 7010	Grind WC/Co/Cr
Goodrich	LGPS 7013	Belt Grinding of HVOF Coatings
Goodrich	RPS 11.57 TYPE 3	WC/Co
Goodrich	ES 6.195 Rev.B	WC/Co HVOF
Hamilton Sundstrand	HS15580	HVOF
Hill Air Force Base	200925098	HVOF
Hill Air Force Base	200310641	WC/Co HVOF
Hill Air Force Base	200310642	Grinding of HVOF Coatings
Honeywell Aerospace		
Allied Signal Engines-	EMS 52446	Diffused Aluminide
Garrett engines	EPS 10423	Thermal Spray
Messier-Bugatti Dowty	AMS 2447	HVOF Spray Coatings
Messier-Bugatti Dowty	DCMP 203	HVOF T-400
Messier-Bugatti Dowty	DCMP 212	HVOF Ni/Al
Messier-Bugatti Dowty	IFC40-818-02 ED 5	HVOF WC CoCr
Messier-Bugatti Dowty	IFC40-818-11 ED 2	HVOF T-400 type

<b>Company</b>	<b>Process Designation</b>	<b>Description</b>
Messier-Bugatti Dowty	PCS 2560	HVOF WC/Co/Cr
Messier-Bugatti Dowty	PCS 2565	T/S Coating Surface Inspection
Messier-Bugatti Dowty	PCS 2570	P/S of T-400 Coating
Messier-Bugatti Dowty	PCS 4102	Grind HVOF WC/Co/Cr
Messier-Bugatti Dowty	PCS 4105	Machine Plasma Coatings
Messier-Bugatti Dowty	PCS 6000	Mark Mat'ls., Parts, & Asmbly's.
Northrup-Grumman	NGSS6506	Coating, Hard Face, Furnace Fused
Northrup-Grumman	MIL-M-6874	Metal Spraying
Parker Aerospace	ES6-780	Pack Diffused Aluminide
Pratt & Whitney	PWA 44	Diffused Aluminide
Pratt & Whitney	PWA 53-1	WC/Co Fine
Pratt & Whitney	PWA 53-2	WC/Co Coarse
Pratt & Whitney	PWA 53-5	CrC/NiCr Fine
Pratt & Whitney	PWA 53-7	CrC/NiCr Coarse
Pratt & Whitney	PWA 53-11	Alumina-Titania
Pratt & Whitney	PWA 53-16	Cobalt Alloy Fine
Pratt & Whitney	PWA 53-17	Ni/Cr Alloy
Pratt & Whitney	PWA 53-18	Cobalt Alloy
Pratt & Whitney	PWA 53-33	Mg Zirconate
Pratt & Whitney	PWA 53-37	Ni/Al
Pratt & Whitney	PWA 53-78	Bronze-Aluminum, 90Cu/10Al
Pratt & Whitney	PWA 53-69	Cu/Ni
Pratt & Whitney	PWA 257-1	High Energy Plasma Spray WC/Co
Pratt & Whitney	PWA 257-2	High Energy Plasma Spray Cr/NiCr
Pratt & Whitney	PWA 261	Two Layer Plasma (Metallic/Ceramic)
Pratt & Whitney	PWA 265	Two Layer Bond + TBC

<b>Company</b>	<b>Process Designation</b>	<b>Description</b>
Pratt & Whitney	PWA 295	Diffused Silicide for Refractory Alloys
Pratt & Whitney Canada	CPW-47	Diffused Aluminide
Pratt & Whitney Canada	CPW-672	Thermal Spray
Rolls-Royce	EDS 1306	Fixed Process & Source Control
Rolls-Royce	EPS 10670	Diffused Aluminide
Rolls-Royce	RPS 900	Manufacturing Process Control
SAE Aerospace	AMS 2437	Plasma Spray Coatings.
SAE Aerospace	AMS 2447	HVOF Spray Coatings.
SAE Aerospace	AMS 2448	WC HVOF Spray Coating.
SAE Aerospace	AMS 2449	Grinding WC HVOF Coating.
Sikorsky Aircraft	SS 8491	Type I Plasma Spray
Sikorsky Aircraft	SS 8491	Type III HVOF
Sikorsky Aircraft	SS 8491	Grind HVOF
Williams International	P 4614 C/D	Co/Al Diffusion
Williams International	P 4615	Vapor Phase Aluminide
Williams International	P 1241	Heat Treatment

## **HITEMCO QUALITY SYSTEM CONFORMANCES**

**ISO 9001:2008 and AS9100 Rev C:** Thermal Spray and Diffusion Coatings for Aerospace, Commercial and Military Applications; Excluding Design and Service. **ANSI/NCSLZ540-1**

Calibration **DOD Certified** working under DCMA Surveillance

**NQA-1** Quality Assurance Requirements for Nuclear Applications

### **ITAR COMPLIANT**

#### **NADCAP Certifications: SCOPE OF ACCREDITATION Coatings**

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

#### **AC7109 Rev D - Nadcap Audit Criteria for Coatings**

#### **AC7109/1 Rev C - Nadcap Audit Criteria for Thermal Spray**

High Velocity Oxy Fuel (HVOF) / High Velocity Air Fuel (HVOF) Oxy/Fuel Thermal Spray  
Plasma Thermal Spray  
Sealing

Stripping

Thickness – Mechanical

#### **AC7109/3 Rev E - Nadcap Audit Criteria for Diffusion Coating Processes (AC7109/7 is also required) (to be used on audits before 10 May 2015)**

Pack Process – Above Pack

Pack Process – In Pack

#### **AC7109/4 Rev C - Nadcap Audit Criteria for Stripping**

Grit Blast

#### **AC7109/5 Rev E - Nadcap Audit Criteria for Coating Evaluations ( Laboratory) (Req'd for all Coatings audits - except suppliers using Nadcap approved AC7109/5 labs) (to be used on audits before 15 April 2015)**

Bond Strength – Bend

Bond Strength – Lap Shear Bond Strength – Tensile Erosion – Ambient

Hardness – Hoffman Scratch Hardness – Rockwell Metallography/Microstructure Microindentation

Hardness – Vickers Oxidation

Residual Stress

Thickness – Metallographic

#### **AC7109/7 Rev D - Nadcap Audit Criteria for Heat Treating For Suppliers of Coatings**

Aging Solutioning