



USA APPROVED CONTROLLED PROCESSOR LIST - ALPHA

This list is not applicable for processing Orbiter element hardware.

Vendor Address City / State / Zip	Cage Code Vendor ID	Process Specification CPP/SMPP Description	Rev Rev	MPP	Limitations	Audit Date	Expiration Date	Process Approval Status
AEROSPACE TESTING LAB, INC. 32 SOUTH SATELLITE ROAD SOUTH WINDSOR, CT 06074-0612	0000019344	ASTM E1417 TYPE I, ALL METHODS 2C Standard Practice for Liquid Penetrant Testing, Fluorescent Dye, Water Washable -	10/15/07	N/A		12/03/07	01/31/12	APPROVED
AEROTECH FINISHING, INC. 17505 HWY 72 WEST ATHENS, AL 35613-5643	0000019583	10PRC-0442 CLASS I TYPE A AERO TECH 002 Protective Finish Application, Conversion Coat Type 3 for Electrical Bond Surfaces	0004	N/A	For SRB use only	12/11/09	12/12/11	APPROVED
		10PRC-0442 CLASS I TYPE B AERO TECH 002 Protective Finish Application, Conversion Coat Type 1A	0004	N/A	For SRB use only	12/11/09	12/12/11	APPROVED
		10PRC-0442 CLASS I TYPE C AERO TECH 002 Protective Finish Application on Aluminum Substrate (Conversion Coat and Primer)	0004	N/A	For SRB use only	12/11/09	12/12/11	APPROVED
		10PRC-0442 CLASS I TYPE D AERO TECH 002 Protective Finish on Aluminum Substrate (Conversion Coat, Primer, and Topcoat)	0004	N/A	For SRB use only	12/11/09	12/12/11	APPROVED
		10PRC-0442 CLASS II TYPE C AERO TECH 002 Protective Finish on CRES Substrate (Primer and Topcoat)	0004	N/A	For SRB use only	12/11/09	12/12/11	APPROVED
		10PRC-0442 CLASS II, TYPE B AERO TECH 002 Protective Finish Application on CRES Substrate (Primer)	0004	N/A	For SRB use only	12/11/09	12/12/11	APPROVED
		10PRC-0442 CLASS III TYPE B AERO TECH 002 Protective Finish Application, Low Alloy Steel Primer	0004	N/A	For SRB use only	12/11/09	12/12/11	APPROVED
		10PRC-0442 CLASS III TYPE C AERO TECH 002 Protective Finish Application, Low Alloy Steel Primer and Topcoat	0004	N/A	For SRB use only	12/11/09	12/12/11	APPROVED
ANOPLATE CORPORATION 459 PULASKI ST. SYRACUSE, NY 13204-1134	0000018893	AMS 2700 METHOD I ALL TYPES PS 35, IC 35 Passivation of Corrosion Resistant Steels;	S, K	N/A	Shuttle Use Only- Nitric Acid	10/01/08	10/31/10	LIMITED
		AMS-QQ-P-35 ALL TYPES PS 35, IC 35 Passivation Treatments for Corrosion-Resistant Steel - ALL Types.	S, K	N/A	Shuttle Use Only	10/01/08	10/31/10	LIMITED



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ANOPLATE CORPORATION 459 PULASKI ST. SYRACUSE, NY 13204-1134	0000018893	ASTM A 967 NITRIC 1-5 PS 35, IC 35	S, K	N/A	Shuttle Use Only - Nitric Acid	10/01/08	10/31/10	LIMITED
		MIL-A-8625 TYPE II PS 8625-II, IC 8625-II	F K, F	N/A	Shuttle use only	10/01/08	10/31/10	LIMITED
		Anodic Coatings for Aluminum and Aluminum Alloys (Sulfuric Acid Anodizing). QQ-P-35, ALL TYPES PS 35, IC 35	S, K	N/A	Shuttle Use Only	10/01/08	10/31/10	LIMITED
Passivation Treatments for Corrosion Resistant Steel - All Types								
ASTRO PAK CORPORATION 12201 PAGBORN AVENUE DOWNEY, CA 90241-5612	0000015269	KSC-C-123 N/A SURFACE CLEANLINESS OF FLUID SYSTEMS	H 6 N/A	N/A	Not approved to clean filters per ARP 598 or bubble point testing per ARP 901.--Approved for cleaning particulate Level 100 and greater (100 thru 1,000, and NVR).	06/26/10	06/26/11	LIMITED
B-G DETECTION SERVICE 9235 GLEN OAKS BLVD. SUN VALLEY, CA 91352-2614	0000018895	ASTM E1417 TYPE I, METHOD A BG-QCM-470 Standard Testing for Liquid Penetrant Testing, Fluorescent Dye, Water Washable.	U	N/A		03/01/07	10/31/10	APPROVED
BODYCOTE THERMAL PROCESSING 2900 SOUTH SUNOL DRIVE LOS ANGELES, CA 90023-4715	0000015241	AMS 2759/1 BTP 2002-009, BTP 2003-028	A, A	N/A	FWD and Aft Separation Bolts Housing	05/04/09	01/31/11	APPROVED
		Heat Treatment of Carbon and Low Alloy Steel Parts Minimum Tensile Strength Bel						
		AMS-H-6875 CLASS A BTP 2002-009, BTP 2003-028	A, A	N/A	FWD and Aft Separation Bolts Housing	05/04/09	01/31/11	APPROVED
		Heat Treatment of Steel Raw Materials, Carbon and Low Alloy Steel.						
		MIL-H-6875 BTP 2004-002	H B	N/A	Part numbers 10170-0372 & 10170-0462 only where General Products has direct contract	05/04/09	01/31/11	LIMITED
MIL-H-6875 BTP 2004-003	H B	NA	Part numbers 10170-0461 & 10170-0367 only where General Products has direct contract.	05/04/09	01/31/11	LIMITED		
MIL-H-6875 BTP 2004-004	H B	NONE	Part numbers 10170-0257, 10170-0258, 10170-0260, 10170-0261, 10170-0276, 10170-0278 only and General Products has direct contract	05/04/09	01/31/11	LIMITED		
Heat Treatment of Steel								



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BODYCOTE THERMAL PROCESSING 9921 ROMANDEL AVE. SANTA FE SPRINGS, CA 90670-3441	0000018926	10PRC-0631 05-009 Procedure for Precipitation Heat Treatment of Frangible Nuts	C	N/A	Shuttle Use only	01/21/09	10/31/10	APPROVED
BRADDOCK METALLURGICAL, INC. 14600 DUVAL PLACE WEST JACKSONVILLE, FL 32218-9417	0000017176	AMS 2770 BMI PS 2.0 Heat Treatment of Wrought Aluminum Alloy Parts	A	N/A		04/27/09	01/31/11	APPROVED
		AMS 2771 BMI PS 2.0 Heat Treatment of Aluminum Alloy Castings	A	N/A		04/27/09	01/31/11	APPROVED
		AMS-H-6088 BMI PS 2.0 Heat Treatment of Aluminum Alloys	A	N/A		04/27/09	01/31/11	APPROVED
		MIL-H-6088 BMI PS 2.0 HEAT TREAT OF ALUMINUM	A	N/A		04/27/09	01/31/11	APPROVED
		MIL-H-6875 SMPP BMI B10 Heat Treatment of Steel	A	NA	EPDM Covers Only	04/27/09	01/31/11	LIMITED
BST SYSTEMS, INC. 78 PLAINFIELD PIKE RD. PLAINFIELD, CT 06374-1743	0000011738	NHB5300.4 (3A-1) WIP-SB-136, WIP-SB-139, WIP-SB-140 SOLDERING	DEC 1976 B, C, A	N/A	Solder cups only	09/25/08	09/24/10	LIMITED
		NHB5300.4 (3H) CRIMPING WIP-SB-138, SPS-SB-000122, WIP-SB-14 Requirements for Crimping and Wire Wrap.	JULY 199 F, C, G	N/A		06/03/09	06/03/11	APPROVED
CEDTECH TESTING LABORATORIES 10708 S. GARFIELD AVE. SOUTH GATE, CA 90280-7328	0000012246	ASTM E1742 SOP-RT-IP Standard Practice for Radiographic Examination.	NC	N/A		11/16/07	07/31/11	APPROVED
CHEMRESEARCH 1101 WEST HILTON PHOENIX, AZ 85007-4305	0000019585	MIL-A-8625 ALL TYPES SPS 234, PF 234, GPS 5 Anodic Coatings for Aluminum and Aluminum Alloys	V, F, A	N/A		08/21/09	04/30/11	APPROVED
		MIL-C-26074 SPS-220 ELECTROLESS NICKEL PLATING	E P	N/A		08/21/09	04/30/11	APPROVED



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CINTAS CORPORATION P. O. BOX 11765 DAYTONA BEACH, FL 33563-6303	0000018489	KSC-C-123 CR-17 SURFACE CLEANLINESS OF FLUID SYSTEMS	N/A N/A	N/A	Cleanroom Laundry at Greenville, SC location, plant # 236.	12/18/08	06/02/11	APPROVED
COASTLINE METAL FINISHING CORP. 7061 PATTERSON DRIVE GARDEN GROVE, CA 92841-1414	0000016124	AMS-A-8625 TYPE II MPP 113 Anodic Coatings for Al and Al Alloys (Sulfuric Acid Anodizing) MIL-A-8625 TYPE II MPP 113 Anodic Coatings for Aluminum and Aluminum Alloys (Sulfuric Acid Anodizing). QQ-P-35 TYPE II MPP-107 Passivation for Corrosion Resistant Steels (Medium Temp Nitric Acid, Sodium Dich QQ-P-35 TYPE VI MPP-107 Passivation Treatments for Corrosion-Resistant Steel, Low Temperature Nitric Acid QQ-P-35 TYPE VII MPP-107 Passivation Treatments for Corrosion-Resistant Steel, Medium Temperature Nitric A QQ-P-35 TYPE VIII MPP-107 Passivation for Corrosion Resistant Steels (Medium Temp High Concentration Nitric	F J F J C L C L C L	N/A N/A N/A N/A		06/08/09	10/31/10	APPROVED
CONAX FLORIDA CORPORATION 2801 75TH STREET NORTH ST. PETERSBURG, FL 33710-2939	0000009244	ASTM E1742 GWI-QUA-17 Standard Practice for Radiographic Examination. NAS-410 GWI-QUA-15 NAS CERTIFICATION & QUALIFICATION OF	G D	N/A N/A	Stresau Laboratories of Spooner, WI is a sub-tier supplier to Conax/Cobham Inc of St. Petersburg, FL SWAR Primers - X-ray prior to installation in booster assembly. Stresau Laboratories of Spooner, WI is a sub-tier supplier to Conax/Cobham Inc of St. Petersburg, FL SWAR Primers - X-ray prior to installation in booster assembly.	10/28/09	10/28/11	APPROVED
CONTINENTAL HEAT TREATING, INC. 10643 S. NORWALK BLVD SANTA FE SPRINGS, CA 90670-3821	0000001437	AMS-H-6875 CLASS D B12875-01-01HT Heat Treatment of Steel Raw Materials, Precipitation-Hardening and Maraging Stee	A 02/05/2007	N/A	17-4 Steel to Cond H1025 only	10/03/08	10/31/10	APPROVED



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DRILUBE ALL METALS PROCESSING 8401 STANDUSTRIAL ST. STRANTON, CA 90680-2619	0000018922	MIL-C-26074 PRO945 10	E D	N/A	Forward Separation Bolts Housings Only	11/26/07	03/22/12	APPROVED
		ELECTROLESS NICKEL PLATING						
		MIL-C-26074 PRO165 10	E D	NA	Aft Separation Bolts Housings Only	11/26/07	03/22/12	APPROVED
		ELECTROLESS NICKEL PLATING						
		MIL-L-46010 TYPE I PRO945 10	D D	N/A	Forward Separation Bolts Housings Only	11/26/07	03/22/12	APPROVED
		LUBRICANT, SOLID FILM, HEAT CURED, CORROSION INHIBITING						
		MIL-L-46010 TYPE I PRO165 10	D D	NA	Aft Separation Bolts Housings Only	11/26/07	03/22/12	APPROVED
		Lubricant, Solid Film, Heat Cured, Corrosion Inhibiting						
E/M COATING SERVICES 6940 FARMDALE AVENUE NORTH HOLLYWOOD, CA 91605-6286	0000015778	MIL-L-46010 EMPS 1337	H	N/A	Traveler NA1 2-500948-1, Rev. A; Traveler NA3 2-500952-1, Rev. A; Traveler NA4 2-500949-1, Rev. A; Traveler NA5 2-500933-1, Rev. A; Traveler NA6 2-500938-1, Rev. A; Traveler NA7 2-500932-1, Rev. A; Traveler NA8 2-500939-1, Rev. A	06/30/09	04/30/11	APPROVED
		LUBRICANT, SOLID FILM HEAT CURED, CORROSION INHIBITING						
		MIL-L-46010 TYPE I 286627	B	N/A		06/30/09	04/30/11	APPROVED
		LUBRICANT, SOLID FILM, HEAT CURED, CORROSION INHIBITING						
ENGRAVERS METAL FABRICATORS, INC. 124 S IMPERIAL ST. MERRITT ISLAND, FL 32952-3630	0000001912	10PRC-0442, CLASS III, TYPE D MP-33, MP-35	D E, D	N/A	Only for the application and testing of the topcoat. EMF is not yet approved for phosphate coating.	10/21/09	10/21/11	LIMITED
		Protective Finishes per MSFC-SPEC-250 (Low Alloy Steel Phosphate Treated and						
		MSFC-SPEC-504 MP-43	C B	N/A		11/30/09	07/31/11	APPROVED
		WELDING						
		MSFC-SPEC-504 MP-43	C B	N/A		05/27/08	07/31/11	APPROVED
		WELDING						
		TT-C-490, METHOD I, TYPE I MP-47	E	N/A		10/29/09	10/29/11	APPROVED
		PHOSPHATE COATING OF STEEL						



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ENSIGN-BICKFORD AEROSPACE & DEFENSE CO. 640 HOPMEADOW ST SIMSBURY, CT 06070-0429	0000015992	ASTM E1742 PS 0001/6 Standard Practice for Radiographic Examination.	08 C	N/A	Shuttle Use Only	05/20/08	06/18/11	APPROVED
FISHER CONTAINER CORP., MEDICAL DIV. 1111 BUSCH PARKWAY BUFFALO GROVE, IL 60089-4504	0000002243	KSC-C-123 WI 10.1 SURFACE CLEANLINESS OF FLUID SYSTEMS	H #0	N/A	Cleaning of film (Aclar, Nylon and Polyethylene), including bags and "non-metallic tubing" (rolls of clean poly tubing) used for precision cleaned packaging.	05/08/09	05/08/11	APPROVED
GE INSPECTION SERVICES 8550 DORCHESTER RD. CHARLESTON, SC 29420-7301	0000018905	ASTM E426 QCP-718 Standard Practice for Electromagnetic (Eddy-Current)	1	N/A	Performed at Pacific Scientific or RONLO only	01/15/09	01/15/11	APPROVED
GENERAL PRODUCTS, LLC 739 WALL ROAD BROWNSBORO, AL 35741-9510	0000011162	10PRC-0442 CLASS I TYPE A USA-F-04 Protective Finish Application, Conversion Coat Type 3 for Electrical Bond Surfaces	-	N/A		04/15/10	12/09/10	APPROVED
		10PRC-0442 CLASS I TYPE A USA-F-01, USA-F-02, I-10 Protective Finish Application, Conversion Coat Type 3 for Electrical Bond Surfaces	D A, A, G	N/A		12/09/08	12/09/10	APPROVED
		10PRC-0442 CLASS I TYPE B USA-F-04 Protective Finish Application, Conversion Coat Type 3 for Electrical Bond Surfaces	-	N/A		04/15/10	12/09/10	APPROVED
		10PRC-0442 CLASS I TYPE B USA-F-01, USA-F-02, I-10 Protective Finish Application, Conversion Coat Type 1A	D A, A, G	N/A		12/09/08	12/09/10	APPROVED
		10PRC-0442 CLASS I TYPE C USA-F-01, USA-F-02, I-10, F-3 Protective Finish Application on Aluminum Substrate (Conversion Coat and Primer)	D A, A, G, G	N/A	Deft Paint System	12/09/08	12/09/10	APPROVED
		10PRC-0442 CLASS I TYPE D USA-F01, USA-F-02, I-10, F-10 Protective Finish on Aluminum Substrate (Conversion Coat, Primer, and Topcoat)	D A, A, G, C	N/A	Hentzen Paint System	12/09/08	12/09/10	APPROVED
		10PRC-0442 CLASS II, TYPE B USA-F-02, I-10, F-3 Protective Finish Application on CRES Substrate (Primer)	D A, G, G	N/A	Deft Paint System	12/09/08	12/09/10	APPROVED
		10PRC-0442 CLASS III TYPE B USA-F-03, I-10 Protective Finish Application, Low Alloy Steel Primer	D A, G	N/A		12/09/08	12/09/10	APPROVED



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GENERAL PRODUCTS, LLC 739 WALL ROAD BROWNSBORO, AL 35741-9510	0000011162	10PRC-0442 CLASS III TYPE C	D	N/A		12/09/08	12/09/10	APPROVED		
		USA-F-03, I-10	A, G							
		Protective Finish Application, Low Alloy Steel Primer and Topcoat								
		10PRC-0442, CLASS I TYPE C	D	N/A	Hentzen Paint System	12/09/08	12/09/10	APPROVED		
		USA-F-01, USA-F-02, I-10, F-10	A, A, G, C							
		Protective Finish Application on Aluminum Substrate (Conversion Coat and Primer)								
		10PRC-0442, CLASS I, TYPE D	D	N/A	Deft Paint System	12/09/08	12/09/10	APPROVED		
		USA-F-01, USA-F-02, I-10, F-3	A, A, G, G							
		Protective Finishes per MSFC-SPEC-250 (Aluminum Substrates Conversion Coat, I								
		10PRC-0442, CLASS II TYPE B	D	N/A	Hentzen Paint System	12/09/08	12/09/10	APPROVED		
		I-10, F-10	G, C							
		Protective Finish Application on CRES Substrate (Primer)								
		10PRC-0442, CLASS II, TYPE C	D	N/A		12/09/08	12/09/10	APPROVED		
		USA-F-02, I-10, F-3, F-10	A, G, G, C							
		Protective Finishes per MSFC-SPEC-250 (CRES Substrates, Primer and Topcoat)								
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		GOODRICH CORPORATION 6061 GOODRICH BLVD JACKSONVILLE, FL 32226-3409	0000018301	10PRC-0348		N/A	Part Number 10755-0049-105 only	10/30/06	01/21/12	APPROVED
MIPN 97, MIPN 98, MIPN 99, MIPN 100	3, 2, 3, 2				Part Number 10755-0049-106 only					
Procedure for Insulation, EPDM, Bonding, and Fabrication on Steel Surfaces					Part Number 10755-0050-105 only					
		10PRC-0348		NOMPP	Part Number 10755-0054-107 only	10/30/06	01/21/12	APPROVED		
		MIPN 105, MIPN 106, MIPN 107, MIPN108	3, 2, 3, 2		Part Number 10755-0054-108 only					
		Procedure for Insulation, EPDM, Bonding, and Fabrication on Steel Surfaces			Part Number 10755-0061-105 only					
		10PRC-0348		NONE	Part Number 10755-0051-105 only	10/30/06	01/21/12	APPROVED		
		MIPN 101, MIPN 102, MIPN 103, MIPN104	4, 3, 3, 2		Part Number 10755-0051-106 only					
		Procedure for Insulation, EPDM, Bonding, and Fabrication on Steel Surfaces			Part Number 10755-0053-107 only					
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KNF CLEAN ROOM PRODUCTS CORPORATION 1800 OCEAN AVENUE RONKONKOMA, NY 11779-6535	0000012947	KSC-C-123 SOP 2325. CRS-25-T SURFACE CLEANLINESS OF FLUID SYSTEMS	H, 06 C,	N/A	Cleaning of film (Aclar, Nylon and Polyethylene)used for precision cleaned packaging.	06/05/09	06/05/11	APPROVED		
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L-3 COMMUNICATIONS CORPORATION 450 CLARK DRIVE BUDD LAKE, NJ 07828-4300	0000000274	MSFC-PROC-508	4	N/A		11/20/08	11/20/10	APPROVED		
		5137467-GMS & 5138159-GMS	D & G							
		Conformal Coating								
		N/A		N/A		11/20/08	11/20/10	APPROVED		
		5138159-GMS	G							
		Baking of Circuit Cards or Boards								



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L-3 COMMUNICATIONS CORPORATION 450 CLARK DRIVE BUDD LAKE, NJ 07828-4300	0000000274	NHB5300.4 (3A-1) 5136274-GMS	A	N/A		11/20/08	11/20/10	APPROVED
		SOLDERING						
		NHB5300.4 (3A-1) 5138158-GMS & 5138159-GMS	D & G	NA		11/20/08	11/20/10	APPROVED
		Soldering						
		NHB5300.4 (3A-1) 5499844 & 5138159-GMS	K & G	N-A		11/20/08	11/20/10	APPROVED
		Soldering						
		NHB5300.4 (3H) CRIMPING 5136598-GMS	MAY 198 W	N/A		11/20/08	11/20/10	APPROVED
		Crimping						
		NHB5300.4 (3J) CONFORMAL COATING 5137467-GMS & 5138159-GMS	APRIL 19 D & G	N/A		11/20/08	11/20/10	APPROVED
		Conformal Coating						
		NHB5300.4 (3J) STAKING 5136239-GMS & 5138159-GMS	APRIL 19 E & G	N/A		11/20/08	11/20/10	APPROVED
Staking								
LABARGE, INC. 1505 MAIDEN LANE JOPLIN, MO 64802-1210	0000011725	NHB5300.4 (3A-1) PP-0896, QA256	J, G	NA	Solder cups only	06/02/09	06/02/11	LIMITED
		Soldering						
		NHB5300.4 (3A-1) PP-0887, QA-264	- M, F	N/A	Soldering Adapters on Cable Assemblies manufactured per 10SPC-0166, 10SPC-0212, and 10SPC-0213	06/02/09	06/02/11	LIMITED
Soldering								
		NHB5300.4 (3H) CRIMPING PP-0889 ; QA-258	R, Q	N/A		02/23/10	02/23/11	APPROVED
		Requirements for Crimping and Wire Wrap.						
MAROTTA CONTROLS, INC. P.O. BOX 427 MONTVILLE, NJ 07045-0427	0000003663	KSC-C-123 N/A	H, 6 NONE	N/A		01/03/10	01/13/11	APPROVED
		SURFACE CLEANLINESS OF FLUID SYSTEMS						
MOOG, INC., SPACE PRODUCTS DIVISION SENECA STREET & JAMISON RD PLANT 20 EAST AURORA, NY 14052-0018	0000011886	AMS 2759/ALL EPS 11169, EPS 11171, EPS 11172	LATEST K, J, R	N/A	Shuttle Use Only	08/05/09	08/05/11	APPROVED
		HEAT TREATMENT - ALL STEEL PARTS WITHIN THIS SPECIFICATION						



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MOOG, INC., SPACE PRODUCTS DIVISION SENECA STREET & JAMISON RD PLANT 20 EAST AURORA, NY 14052-0018	0000011886	AMS-H-6875 ALL CLASSES EPS 11172 Heat Treatment of Steel Raw Materials - ALL Classes.	LATEST R	N/A	Shuttle Use Only	08/05/09	08/05/11	APPROVED
		MIL-H-6875 EPS 11169, EPS 11171 HEAT TREATMENT OF ALLOY STEELS	LATEST K, J,	N/A	Shuttle Use Only	08/05/09	08/05/11	APPROVED
NATIONAL TECHNICAL SYSTEMS 5320 W. 104TH STREET LOS ANGELES, CA 90045-6010	0000018524	MIL-STD-1246 CPP-9001 CLEANLINESS LEVELS/CONTAM. CONTROL PROGRAM	C REV. E	N/A		03/29/10	03/29/11	APPROVED
NDT LABORATORIES, INC. 240 E. CARIBBEAN DR. SUNNYVALE, CA 94089-1007	0000019117	ASTM E1417 TYPE I, METHOD A QPM-8 Standard Testing for Liquid Penetrant Testing, Fluorescent Dye, Water Washable.	05 N	N/A	Controlled Processor approval is constrained to the current procurement effort defined on PO6000163770. Continuation of processor approval may be reviewed following Nadcap audit	10/19/07	04/28/11	APPROVED
PACIFIC SCIENTIFIC COMPANY 7073 WEST WILLIS DRIVE CHANDLER, AZ 85226-5111	0000004313	ASTM E1742 10320-0004 ATP Standard Practice for Radiographic Examination.	D	N/A	Delay Cutter Assembly Lot Acceptance Testing Lot ACL and subs	06/02/08	04/30/11	APPROVED
		ASTM E1742 OP-QA-006 Standard Practice for Radiographic Examination.	P	N/A		08/29/08	04/30/11	APPROVED
PACIFIC SCIENTIFIC 7073 W. WILLIS DRIVE CHANDLER, AZ 85226-5111	0000008875	10SPC-0025 OP-TST-005 Specification for Forward Separation Bolt, Separation System, Space Shuttle Solid I	E K	N/A	REF PV4066663	10/01/09	10/01/11	APPROVED
		10SPC-0026 OP-TST-004 Specification for Aft Sep Bolt, Separation System for Space Shuttle Solid Rocket Bc	K	N/A		10/01/09	08/10/12	APPROVED
		10SPC-0030 ATP10306-0003-107 Specification for Frangible Nut SRB/MLP Release System, Space Shuttle Solid Roc	B D	N/A	For Shuttle Use Only	07/14/10	07/16/12	APPROVED
		ASTM E1742 ATP2-502940-1 Standard Practice for Radiographic Examination.	G	N/A	Frangible Nut Crossover	08/29/08	04/30/11	APPROVED



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PACIFIC SCIENTIFIC 7073 W. WILLIS DRIVE CHANDLER, AZ 85226-5111	0000008875	ASTM E1742 ATP51-4894	J	N/A	ACCEPTANCE TEST PROCEDURE CDF PYROGEN INITIATOR USA P/N 10308-0003-801,802	07/01/09	04/30/11	APPROVED	
		ASTM E1742 ATP2-103160-1	08 B	N/A	NSI PRESSURE CARTRIDGE ASSEMBLY ACCEPTANCE TEST PROCEDURE	04/08/09	04/30/11	APPROVED	
		ASTM E1742 MP2-103160-1	08 F	N/A	NSI PRESSURE CARTRIDGE MP	04/07/09	04/30/11	APPROVED	
		Standard Practice for Radiographic Examination.							
		Standard Practice for Radiographic Examination.							
		Standard Practice for Radiographic Examination.							
PHOENIX HEAT TREATING, INC. 2405 W. MOHAVE ST. PHOENIX, AZ 85009-6413	0000018924	AMS-H-6875 ALL CLASSES W1-QCP-.50	A A	N/A		06/01/09	01/31/11	APPROVED	
		Heat Treatment of Steel Raw Materials - ALL Classes.							
SEMIRAY 3027 EAST WASHINGTON ST. PHOENIX, AZ 85034-1517	0000018916	AMS-QQ-P-35 ALL TYPES SOP CP-056	C	N/A	Approval does not include 440 series steel.	08/12/09	04/30/11	LIMITED	
		ASTM A967 SOP CP-056	C	N/A	Approval does not include 440 series steel.	08/12/09	04/30/11	LIMITED	
		Standard Specification for Chemical Passivation Treatments for Stainless Steel Par							
		ASTM E1417 TYPE I, ALL METHODS PT-001	AN	N/A	sub-tier NDE supplier for Pacific Scientific only	11/01/07	01/31/11	LIMITED	
		Standard Practice for Liquid Penetrant Testing, Fluorescent Dye, Water Washable -							
		ASTM E-1444-94 MT-001	AB	N/A	Approved for Magnetic particle inspection for Pacific Scientific for fwd and aft separation bolt housings only.	11/02/07	01/31/11	LIMITED	
		MAGNETIC PARTICLE INSPECTION							
		QQ-P-35 SOP CP-056	C	N/A	Approval does not include 440 series steel.	08/12/09	04/30/11	LIMITED	
		PASSIVATION TREATMENTS FOR CRES							
SONIC INDUSTRIES, INC. 20030 S. NORMANDIE AVE. TORRANCE, CA 90502-1210	0000006973	AMS 2700 SMP117	J	N/A	Shuttle Use Only	06/19/09	10/31/10	APPROVED	
		Passivation of Corrosion Resistant Steels.							
		ASTM E 1417 SPC012	V AMEND 2	N/A	Fluorescent Penetrant inspections prior to and after final machining are not requirements per the Hold Down Stud drawing, however they are performed as a shop practice by the	07/01/09	04/30/11	APPROVED	
		Liquid (Dye) Penetrant Testing, Standard Practice							



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supplier.								
STORK MATERIALS TESTING & INSPECTION 18100 S. WILMINGTON AVE. RANCHO DOMINGUEZ, CA 90220-5909	0000020129	MIL-STD-2154 SMT-UT-001 ULTRASONIC INSPECTION WROUGHT METALS	N/C	N/A		05/20/08	01/31/11	APPROVED
THE CHAMP COMPANY 1150-B DELL AVE CAMPBELL, CA 95008-6640	0000018172	MSFC-SPEC-560 CHC000010 The Fusion Welding of Steels, Corrosion and Heat Resistant Alloys.	A	N/A		05/20/09	05/05/11	APPROVED
UNIVERSAL PROPULSION CO., INC. (UPCO) SEATING & PROPULSION SYSTEMS FAIRFIELD, CA 94533-0659	0000013929	ASTM E1742 40669/40807 Standard Practice for Radiographic Examination.	H/B	N/A	Frustum Sep Assy ATP.	10/29/07	07/31/11	APPROVED
		ASTM E1742 4984 (02) ATP Standard Practice for Radiographic Examination.	Y	N/A	Range Safety System Destruct Assemblies Acceptance Test Procedure	04/14/09	07/31/11	APPROVED
		ASTM E1742 11914(102) Standard Practice for Radiographic Examination.	R	N/A01	CDF Assembly ATP. Ref VECP 11914(95) CRBD SB5-90-P958	12/04/08	07/31/11	APPROVED
		ASTM E1742 24043/24044 Standard Practice for Radiographic Examination.	A/A	N/A01	RSS Destruct Assy.	10/29/07	07/31/11	APPROVED
		ASTM E1742 24540/24541 Standard Practice for Radiographic Examination.	F	N/A02	RSS Destruct Assy ATP.	10/29/07	07/31/11	APPROVED
		ASTM E1742 40684 Standard Practice for Radiographic Examination.	J	N/A03	SRB LSC/RSS ATP.	10/29/07	07/31/11	APPROVED
		ASTM E1742 5488100 Standard Practice for Radiographic Examination.	L	N/A04	X-Ray Insp Thruster PC.	10/29/07	07/31/11	APPROVED
		ASTM E1742 5616100 Standard Practice for Radiographic Examination.	F	N/A05	X-Ray Insp CDF Initiator.	10/29/07	07/31/11	APPROVED
		ASTM E1742 12545100 Standard Practice for Radiographic Examination.	F	N/A06	X-Ray Insp Thruster Assy.	10/29/07	07/31/11	APPROVED



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UNIVERSAL PROPULSION CO., INC. (UPCO) SEATING & PROPULSION SYSTEMS FAIRFIELD, CA 94533-0659	0000013929	ASTM E1742 5607100 Standard Practice for Radiographic Examination.	F	N/A07	NSI Pressure Cartridge ATP.	10/29/07	07/31/11	APPROVED
		ASTM E1742 5616100 Standard Practice for Radiographic Examination.	F	N/A08	CDF INITIATOR ATP.	10/29/07	07/31/11	APPROVED
		ASTM E1742 5675100 Standard Practice for Radiographic Examination.	D	N/A09	CDF Pressure Cartridge.	10/29/07	07/31/11	APPROVED
		ASTM E1742 40-5488100 Standard Practice for Radiographic Examination.	06 K	N/A	Thruster Pressure Cartridge Manufacturing Procedure in accordance with 25-5488100 Rev. F UPCO X-ray Procedure for TPC	03/05/09	07/31/11	APPROVED
		ASTM E1742 4983(02)ATP Standard Practice for Radiographic Examination.	06 K	N/A		04/13/09	07/31/11	APPROVED
		ASTM E1742 4983(02)ATP Standard Practice for Radiographic Examination.	06 K	N/A		01/12/06	07/31/11	APPROVED
WILTECH OF FLORIDA CORPORATION P.O. BOX 21052 KENNEDY SPACE CTR, FL 32815-0052	0000006365	KSC-C-123 4-0-385 SURFACE CLEANLINESS OF FLUID SYSTEMS	H6 N/A	N/A		01/20/10	01/20/11	APPROVED

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