



USA APPROVED CONTROLLED PROCESSOR LIST - ALPHA

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Vendor Address City / State / Zip	Vendor ID	Process Specification CPP/SMPP Description	Rev Rev	MPP	Limitations	Audit Date	Expiration Date	Process Approval Status
		NAS-410 GWI-QUA-15 NAS CERTIFICATION & QUALIFICATION OF NONDESTRUCTIVE TEST PERSONNEL	D	N/A	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
DRILUBE ALL METALS PROCESSING 8401 STANDUSTRIAL ST. STRANTON, CA 90680	0000018922	MIL-C-26074 PRO945 10 ELECTROLESS NICKEL PLATING	E D	N/A	Forward Separation Bolts Housings Only	11/26/07	03/22/12	Approved
		MIL-C-26074 PRO165 10 ELECTROLESS NICKEL PLATING	E D	NA	Aft Separation Bolts Housings Only	11/26/07	03/22/12	Approved
		MIL-L-46010 TYPE I PRO945 10 LUBRICANT, SOLID FILM, HEAT CURED, CORROSION INHIBITING	D D	N/A	Forward Separation Bolts Housings Only	11/26/07	03/22/12	Approved
		MIL-L-46010 TYPE I PRO165 10 Lubricant, Solid Film, Heat Cured, Corrosion Inhibiting	D D	NA	Aft Separation Bolts Housings Only	11/26/07	03/22/12	Approved
ENGRAVERS METAL FABRICATORS, INC. 124 S IMPERIAL ST. MERRITT ISLAND, FL 32952	0000001912	10PRC-0442, CLASS III, TYPE D MP-33, MP-35 Protective Finishes per MSFC-SPEC-250 (Low Alloy Steel Phosphate Treated and Topcoat) MSFC-SPEC-504 MP-43 WELDING	D E, D C B	N/A 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
		MSFC-SPEC-504 MP-43 WELDING	C B	N/A		05/27/08	07/31/11	Approved
		MSFC-SPEC-504 MP-43 WELDING	C B	N/A		11/30/09	07/31/11	Approved
		TT-C-490, METHOD I, TYPE I MP-47 PHOSPHATE COATING OF STEEL	E	N/A		10/29/09	10/29/11	Approved
GENERAL PRODUCTS, LLC 739 WALL ROAD BROWNSBORO, AL 35741	0000011162	10PRC-0442 CLASS I TYPE A USA-F-04 Protective Finish Application, Conversion Coat Type 3 for Electrical Bond Surfaces	BASIC -	N/A		04/15/10	12/09/12	Approved



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GENERAL PRODUCTS, LLC 739 WALL ROAD BROWNSBORO, AL 35741	0000011162	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	12/09/12	Approved
		10PRC-0442 CLASS I TYPE B USA-F-04 Protective Finish Application, Conversion Coat Type 3 for Electrical Bond Surfaces	BASIC -	N/A		04/15/10	12/09/12	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	12/09/12	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	Deflt Paint System	12/09/08	12/09/12	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	12/09/12	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	Deflt Paint System	12/09/08	11/19/12	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	12/19/12	Approved
		10PRC-0442 CLASS III TYPE C USA-F-03, I-10 Protective Finish Application, Low Alloy Steel Primer and Topcoat	D A, G	N/A		12/09/08	12/19/12	Approved
		10PRC-0442, CLASS I TYPE C USA-F-01, USA-F-02, I-10, F-10 Protective Finish Application on Aluminum Substrate (Conversion Coat and Primer)	D A, A, G, C	N/A	Hentzen Paint System	12/09/08	12/19/12	Approved
		10PRC-0442, CLASS I, TYPE D USA-F-01, USA-F-02, I-10, F-3 Protective Finishes per MSFC-SPEC-250 (Aluminum Substrates Conversion Coat, Primer, and Topcoat)	D A, A, G, G	N/A	Deflt Paint System	12/09/08	12/19/12	Approved
		10PRC-0442, CLASS II TYPE B I-10, F-10 Protective Finish Application on CRES Substrate (Primer)	D G, C	N/A	Hentzen Paint System	12/09/08	12/12/12	Approved



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GENERAL PRODUCTS, LLC 739 WALL ROAD BROWNSBORO, AL 35741	0000011162	10PRC-0442, CLASS II, TYPE C USA-F-02, I-10, F-3, F-10 Protective Finishes per MSFC-SPEC-250 (CRES Substrates, Primer and Topcoat)	D A, G, G, C	N/A		12/09/08	12/19/12	Approved
GOODRICH CORPORATION 6061 GOODRICH BLVD JACKSONVILLE, FL 32226	0000018301	10PRC-0348 MIPN 97, MIPN 98, MIPN 99, MIPN 100 Procedure for Insulation, EPDM, Bonding, and Fabrication on Steel Surfaces 10PRC-0348 MIPN 105, MIPN 106, MIPN 107, MIPN108 Procedure for Insulation, EPDM, Bonding, and Fabrication on Steel Surfaces 10PRC-0348 MIPN 101, MIPN 102, MIPN 103, MIPN104 Procedure for Insulation, EPDM, Bonding, and Fabrication on Steel Surfaces	3, 2, 3, 2	N/A NOMPP NONE	Part Number 10755-0049-105 only Part Number 10755-0049-106 only Part Number 10755-0050-105 only Part Number 10755-0050-106 only Part Number 10755-0054-107 only Part Number 10755-0054-108 only Part Number 10755-0061-105 only Part Number 10755-0061-106 only Part Number 10755-0051-105 only Part Number 10755-0051-106 only Part Number 10755-0053-107 only Part Number 10755-0053-108 only	10/30/06	01/21/12	Approved
KNF CLEAN ROOM PRODUCTS CORPORATION 1800 OCEAN AVENUE RONKONKOMA, NY 11779	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.	06/07/11	06/07/12	Approved
MAROTTA CONTROLS, INC. P.O. BOX 427 MONTVILLE, NJ 07045	0000003663	KSC-C-123 N/A SURFACE CLEANLINESS OF FLUID SYSTEMS	H, 6 NONE	N/A		01/03/10	01/31/12	Approved
MOOG, INC., SPACE PRODUCTS DIVISION SENECA STREET & JAMISON RD PLANT 20 EAST AURORA, NY 14052	0000011886	AMS 2759/ALL EPS 11169, EPS 11171, EPS 11172 HEAT TREATMENT - ALL STEEL PARTS WITHIN THIS SPECIFICATION AMS-H-6875 ALL CLASSES EPS 11172 Heat Treatment of Steel Raw Materials - ALL Classes. AMS-QQ-P-35 ALL TYPES EP 3204 Passivation Treatments for Corrosion-Resistant Steel - ALL Types. ASTM A967 EP 3204 Standard Specification for Chemical Passivation Treatments for Stainless Steel Parts. MIL-H-6875 EPS 11169, EPS 11171 HEAT TREATMENT OF ALLOY STEELS	LATEST K, J, R	N/A	Shuttle Use Only	07/27/11	08/05/12	Approved
					Shuttle Use Only	07/27/11	08/05/12	Approved
						11/09/10	11/09/12	Approved
						11/09/10	11/09/12	Approved
					Shuttle Use Only	07/27/11	08/05/12	Approved



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NATIONAL TECHNICAL SYSTEMS 5320 W. 104TH STREET LOS ANGELES, CA 90045	0000018524	MIL-STD-1246 CPP-9001 CLEANLINESS LEVELS/CONTAM. CONTROL PROGRAM	C REV. E	N/A		03/21/11	03/21/12	Approved
PACIFIC SCIENTIFIC 7073 W. WILLIS DRIVE CHANDLER, AZ 85226	0000008875	10SPC-0025 OP-TST-005 Specification for Forward Separation Bolt, Separation System, Space Shuttle Solid Rocket Booster 10SPC-0026 OP-TST-004 Specification for Aft Sep Bolt, Separation System for Space Shuttle Solid Rocket Booster 10SPC-0030 ATP10306-0003-107 Specification for Frangible Nut SRB/MLP Release System, Space Shuttle Solid Rocket Booster ASTM E1742 MTP 10321-0001-801-01 Standard Practice for Radiographic Examination.	E M M B D M NC	N/A N/A N/A N/A	REF PV4066663 For Shuttle Use Only	10/01/09 10/01/09 07/14/10 12/21/10	10/01/11 08/10/12 07/16/12 04/30/12	Approved Approved Approved Approved
SONIC INDUSTRIES, INC. 20030 S. NORMANDIE AVE. TORRANCE, CA 90502	0000006973	AMS 2700 SMP117 Passivation of Corrosion Resistant Steels.	B J	N/A	Shuttle Use Only	07/26/10	10/30/12	Approved
STORK MATERIALS TESTING & INSPECTION 18100 S. WILMINGTON AVE. RANCHO DOMINGUEZ, CA 90220	0000020129	ASTM E 1417 SMT-PT-001 Liquid (Dye) Penetrant Testing, Standard Practice MIL-STD-453 SMT-RT-001 INSPECTION, RADIOGRAPHIC	05 E C A	N/A	LIQUID PENETRANT PROCEDURE RADIOGRAPHIC INSPECTION PROCEDURE	11/15/10	01/31/12	Approved Approved
SYNERGY METAL FINISHING 895 BUFFALO RD TITUSVILLE, FL 32796	0000020971	AMS 2700 METHOD 1, TYPE 2 TCWI-AMS-2700-002 TYPE II Passivation, Medium Temp Nitric Acid with Sodium Dichromate Additive	C B	N/A		06/01/10	07/31/11	Approved

*Radiographic inspections for SLET performed to ASTM E1742, performance to or approval of OP-QA-006 latest revision is not required for SLET procedure as approved by USA.



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SYNERGY METAL FINISHING 895 BUFFALO RD TITUSVILLE, FL 32796	0000020971	AMS 2700 METHOD 1, TYPE 6	C	N/A		06/01/10	07/31/11	Approved
		TCWI-AMS-2700-006 TYPE VI	B					
		Passivation, Low Temp Nitric Acid						
		AMS-QQ-P-35 TYPE II	-	N/A		06/01/10	07/31/11	Approved
		TCWI-USA-AMS-QQ-P-35 TYPE II-001	B					
		Passivation, Medium Temp Nitric Acid Solution with Sodium Dichromate Additive						
		AMS-QQ-P-35 TYPE VI	-	N/A		06/01/10	07/31/11	Approved
		TCWI-USA-AMS-QQ-P-35 TYPE VI-002	B					
		Passivation Treatments for Corrosion-Resistant Steel, Low Temperature Nitric Acid Solution.						
		AMS-QQ-P-35 TYPE VII	-	N/A		06/01/10	07/31/11	Approved
		TCWI-USA-AMS-QQ-P-35 TYPE VII-003	B					
		Passivation Treatments for Corrosion-Resistant Steel, Medium Temperature Nitric Acid Solution.						
		AMS-QQ-P-35 TYPE VIII	-	N/A		06/01/10	07/31/11	Approved
		TCWI-USA-AMS-QQ-P-35 TYPE VIII-004	B					
		Passivation Treatments for Corrosion-Resistant Steel, Medium Temperature High Concentration Nitric Acid Solution.						
UNIVERSAL PROPULSION CO., INC. (UPCO) SEATING & PROPULSION SYSTEMS FAIRFIELD, CA 94533	0000013929	ASTM E1742		N/A	Frustum Sep Assy ATP.	10/29/07	07/31/11	Approved
		40669/40807	H/B					
		Standard Practice for Radiographic Examination.						
		ASTM E1742		N/A	Range Safety System Destruct	04/14/09	07/31/11	Approved
		4984 (02) ATP	Y		Assemblies Acceptance Test			
		Standard Practice for Radiographic Examination.			Procedure			
		ASTM E1742		N/A01	CDF Assembly ATP. Ref VECP	12/04/08	07/31/11	Approved
		11914(102)	R		11914(95) CRBD SB5-90-P958			
Standard Practice for Radiographic Examination.								
		ASTM E1742		N/A01	RSS Destruct Assy.	10/29/07	07/31/11	Approved
		24043/24044	A/A					
		Standard Practice for Radiographic Examination.						
		ASTM E1742		N/A02	RSS Destruct Assy ATP.	10/29/07	07/31/11	Approved
		24540/24541	F					
		Standard Practice for Radiographic Examination.						
		ASTM E1742		N/A03	SRB LSC/RSS ATP.	10/29/07	07/31/11	Approved
		40684	J					
Standard Practice for Radiographic Examination.								



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UNIVERSAL PROPULSION CO., INC. (UPCO) SEATING & PROPULSION SYSTEMS FAIRFIELD, CA 94533	0000013929	ASTM E1742		N/A04	X-Ray Insp Thruster PC.	10/29/07	07/31/11	Approved
		5488100	L					
		Standard Practice for Radiographic Examination.						
		ASTM E1742		N/A05	X-Ray Insp CDF Initiator.	10/29/07	07/31/11	Approved
		5616100	F					
		Standard Practice for Radiographic Examination.						
		ASTM E1742		N/A06	X-Ray Insp Thruster Assy.	10/29/07	07/31/11	Approved
		12545100	F					
		Standard Practice for Radiographic Examination.						
UNIVERSAL PROPULSION CO., INC. (UPCO) SEATING & PROPULSION SYSTEMS FAIRFIELD, CA 94533	0000013929	ASTM E1742		N/A07	NSI Pressure Cartridge ATP.	10/29/07	07/31/11	Approved
		5607100	F					
		Standard Practice for Radiographic Examination.						
		ASTM E1742		N/A08	CDF INITIATOR ATP.	10/29/07	07/31/11	Approved
		5616100	F					
		Standard Practice for Radiographic Examination.						
		ASTM E1742		N/A09	CDF Pressure Cartridge.	10/29/07	07/31/11	Approved
		5675100	D					
		Standard Practice for Radiographic Examination.						
UNIVERSAL PROPULSION CO., INC. (UPCO) SEATING & PROPULSION SYSTEMS FAIRFIELD, CA 94533	0000013929	ASTM E1742	06	N/A	Thruster Pressure Cartridge	03/05/09	07/31/11	Approved
		40-5488100	K		Manufacturing Procedure in			
		Standard Practice for Radiographic Examination.			accordance with 25-5488100 Rev.			
		ASTM E1742	06	N/A		01/12/06	07/31/11	Approved
		4983(02)ATP	K					
		Standard Practice for Radiographic Examination.						
		ASTM E1742	06	N/A		04/13/09	07/31/11	Approved
		4983(02)ATP	K					
		Standard Practice for Radiographic Examination.						
WEST VALLEY PLATING 18351 EDDY ST UNIT B NORTHRIDGE, CA 91325	0000021055	AMS 2700 METHOD 1, TYPE 2	C	N/A		05/11/10	10/31/11	Approved
		WI-01	J					
		Passivation, Medium Temp Nitric Acid with Sodium Dichromate Additive						
		AMS 2700 METHOD 1, TYPE 6	C	N/A		05/11/10	10/13/11	Approved
WI-01	J							
Passivation, Low Temp Nitric Acid								



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WEST VALLEY PLATING 18351 EDDY ST UNIT B NORTHRIDGE, CA 91325	0000021055	AMS-QQ-P-35 TYPE II WI-01 Passivation, Medium Temp Nitric Acid Solution with Sodium Dichromate Additive	- J	N/A		05/11/10	10/31/11	Approved
		AMS-QQ-P-35 TYPE VI WI-01 Passivation Treatments for Corrosion-Resistant Steel, Low Temperature Nitric Acid Solution.	- J	N/A		05/11/10	10/31/11	Approved
		ASTM A 967 WI-01 Passivation of Corrosion Resistant Steels;Limitation Nitric Acid	- J	N/A	Nitric Acid Only, Verification Testing Required	05/11/10	10/31/11	Approved
WILTECH OF FLORIDA CORPORATION P.O. BOX 21052 KENNEDY SPACE CTR, FL 32815	0000006365	KSC-C-123 4-0-385 SURFACE CLEANLINESS OF FLUID SYSTEMS	H6 N/A	N/A		12/03/10	12/03/11	Approved

Record Count: 78