SUPPLIER QUALITY SYSTEM SURVEY (SQSS)

AMETEK AEROSPACE & DEFENSE THERMAL MANAGEMENT SYSTEMS

COMPLETION OF THIS SURVEY IS REQUIRED FOR EVALUATION AND SUPPLIER SELECTION

Instructions: Supplier shall complete *GENERAL* section along with the applicable *ADDENDUM(s) (per "Type Of Business" on top of Sheet 2)* of this questionnaire and return to PDT Purchasing.

GENERAL (pg 1-5)

COMPANY PROFILE: **PLEASE PROVIDE A W-9 OR EQUIVALENT FOR ACCOUNTING PURPOSES**

Company Name	
Street Address	
City, State/Province,	
Country, Zip/Mailing Code	
Phone Number	
Fax	
Email Address	

ORGANIZATION	NAME	PHONE NUMBER	EMAIL ADDRESS
President/CEO			
General Manager			
Engineering Manager			
Production Manager			
Quality Manager			
Sales Manager			

Year Company Established		Bill To Address	
Year Publicly Held		if different from	
Year Privately Held		Ship To Address:	

Sales for Last 2 Years (in U.S. Dollars)	Year:	Amount:	
	Year:	Amount:	

FACILITIES:

# of Employees (Total)	Manufacturing	Engineering	Quality	Inspection	Administration

Plant Area- Sq. Ft. ➔	

Business Percentage							
Military/Aerospace →		**Commercial ➔**		**Medical ➔**		**Other ➔**	

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Type of Business *(complete applicable Addendum(s) after this section)*					
Distributor	Complete Addendum A	☐	Machine Shop	Complete Addendum B	☐
Sheet Metal Fabrication	Complete Addendum C	☐	Molding (Plastic/Rubber)	Complete Addendum D	☐
Castings or Forgings	Complete Addendum E	☐	Special Process	Complete Addendum F	☐

EQUIPMENT MAINTENANCE:

	YES	NO	N/A	COMMENTS
Is regularly scheduled maintenance performed on machinery?	☐	☐	☐	
Do you maintain a maintenance log?	☐	☐	☐	
Do you have a full time maintenance staff?	☐	☐	☐	
Do you maintain clean room(s)? Class 1,000 ☐ 5,000 ☐ 10,000 ☐ 100,000 ☐	☐	☐	☐	

PRIMARY CUSTOMERS:

NAME	TYPE (*Military, Commercial, Medical*)	% OF BUSINESS

IS THE QUALITY SYSTEM DOCUMENTED?: Yes ☐ No ☐ **If Yes, please provide a copy of the current Quality Manual cover sheet.**

IS THE QUALITY SYSTEM CONFORMING TO OR CERTIFIED TO ANY OF THE FOLLOWING STANDARDS:

	Conforms	Certified		Conforms	Certified		Conforms	Certified
AS 9100	☐	☐	**AS 9120**	☐	☐	**NADCAP***	☐	☐
AC 7004(PRI)	☐	☐	**ISO 9001**	☐	☐	**OTHER***	☐	☐

***Define:**	
CERTIFICATION BODY (CB):	
CERTIFICATE DATE:	
EXPIRATION:	

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CORPORATION CLASSIFICATION:

SMALL	☐	**VETERAN OWNED SMALL BUSINESS**	☐
SMALL DISADVANTAGED	☐	**SERVICE DISABLED VETERAN OWNED SMALL BUSINESS**	☐
WOMEN OWNED	☐	**NATIVE AMERICAN OWNED**	☐
HUB ZONE SMALL BUSINESS CONCERN	☐	**LARGE BUSINESS**	☐

BUSINESS SYSTEMS:

Please Mark (X) for all that apply

☐	CALIBRATION	Metrology Services / Process and Test Equip. Certification
☐	DISTRIBUTOR	Raw Materials / Mil / AN / SAE Spec. hardware, components
☐	FABRICATION-1	Machine Shop / Metal Fab. / Weld / Mech. Process applications.
☐	FABRICATION-2	Fabrication of Electronic Assemblies or Components
☐	MANUFACTURER	Manufacture (OEM) / Design & Manufacture.
☐	TESTING	Testing Facility (Environmental / Performance / Endurance)
☐	Other	

SIC Code(s) ➔				

	YES	NO
Will you allow PDT to conduct an on-site survey?	☐	☐
Will you allow PTD to conduct source inspection?	☐	☐
Will you allow Government source inspection (GSI)?	☐	☐
Are you able to provide evidence of compliance with Specialty Metals DFARS 252.225 – 7014?	☐	☐
ITAR compliant? (*22 CFR International Traffic in Arms Regulations Import / Export Requirements*)	☐	☐

PERSONNEL	**YES**	**NO**	**N/A**	**COMMENTS**
Will you be willing to provide a copy of your organizational chart?	☐	☐	☐	
Are records of training and / or educational qualifications of personnel kept?	☐	☐	☐	
Is more than one person trained to perform key jobs?	☐	☐	☐	
Do you perform annual eye exams for all personnel performing visual inspection by a medically qualified / trained person to Jaeger Type 1 or equivalent?	☐	☐	☐	

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CONTINUOUS IMPROVEMENT/LEAN	YES	NO	N/A	COMMENTS
Is there a documented Continuous Improvement/Lean program?	☐	☐	☐	
Does your company have a Six Sigma or equivalent management system?	☐	☐	☐	
Are scrap & rework trends measured and reported?	☐	☐	☐	
Are scrap and rework values analyzed to determine root causes of defects? How often?	☐	☐	☐	
Are Statistical Techniques used in the manufacturing process?	☐	☐	☐	
Are machine capability studies performed? (e.g., Cpk, Cp, etc.)	☐	☐	☐	
Are Risk Assessment tools used in the organization? If yes, where?	☐	☐	☐	
Are quality and delivery performance to customers measured?	☐	☐	☐	
Are 'Standardization' techniques employed?	☐	☐	☐	
Is a cellular manufacturing environment present?	☐	☐	☐	
Are Kanban's' used in the manufacturing areas?	☐	☐	☐	
Are flexible delivery dates accepted?	☐	☐	☐	
Are LTA's/Blanket Orders accepted?	☐	☐	☐	
Notes:				

Environmental Health & Safety	YES	NO	N/A	COMMENTS
Have you established, implemented and maintained an environmental management system?	☐	☐	☐	
Do you comply with the Toxic Substances Control Act and/or REACh?	☐	☐	☐	
Are you willing to supply a copy of your Code of Conduct/Ethics?	☐	☐		

Cyber Security (If in progress please provide status in the comments block)	YES	In Progress	NO	COMMENTS
Do you comply with the requirements of FAR 52.204-21 - "Basic Safeguarding of Covered Contractor Information Systems" ?	☐	☐	☐	
Do you comply with the requirements of NIST 800-171 - "Protecting Controlled Unclassified Information (CUI) in Non-Federal Systems & Organizations" ?	☐	☐	☐	
Do you comply with DFARS 252.204-7012 - "Safeguarding Covered Defence Information and Cyber Incident Reporting" ?	☐	☐	☐	

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Note: Supplier shall complete *GENERAL* section along with the applicable *ADDENDUM(s)* of this questionnaire and return to PDT Purchasing.

SECTION1–COMPLETEDBY:

Email Address of Quality Contact Representative: _____

Quality Contact Phone/Ext.: _____ Fax: _____

Printed Name of Preparer: _____ Date: _____

Signature: _____ Title: _____

ADDENDUM A - Distributors

Material Type

Electronic ☐ Spec Hardware (COTS) ☐ Packaging ☐ Seals/Elastomers ☐ Wire/Cable ☐ Springs ☐

Other ☐ _____

QPL Listed: Yes ☐ No ☐

If Yes, List QPL Number: _____

Controls for Counterfeit Parts and Components Yes ☐ No ☐

Has your organization developed and implemented a documented counterfeit detection process (for Electrical & Non-electrical items) that is similar to, and meets the intent of, SAE AS5553? PDT is concerned that companies who procure materials, parts, or components ensure that it does not receive counterfeit parts into inventory, use them in manufacturing or inadvertently sell them to, or use on PDT product.

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SUPPLIER QUALITY SYSTEM SURVEY (SQSS)

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ADDENDUM B - Machine Shop

Raw Material Experience

Aluminum ☐ Brass ☐ Steel ☐ Cold Rolled ☐ Stainless Steel ☐ Other ☐ _____

Specify Material Type/Alloy/Temper: _____

_____

	YES	NO
Does the Supplier receive Raw Material Certification?	☐	☐
Does the Supplier receive Raw Material Test Analysis?	☐	☐

Additional Processes performed On-Site (OS) or Sub-Contracted (SC):

	OS	SC		OS	SC		OS	SC		OS	SC
Abrasive Blasting	☐	☐	Anodizing	☐	☐	Cad Plating	☐	☐	Chrome Plating	☐	☐
Black Oxide	☐	☐	NDI - Penetrant	☐	☐	Electroless Nickel	☐	☐	Heat Treating	☐	☐
Chem Film	☐	☐	Painting	☐	☐	Passivation	☐	☐	Powder Coating	☐	☐
NDI - Radiographic	☐	☐	EDM (Wire)	☐	☐	Vapor Degrease	☐	☐	Dri-Film Lube	☐	☐

Number of Operators: _____ Number of Certified Operators: _____ Number of Inspectors: _____

CNC Turning:

Machine Material Capacity	Number of Machines	Current Work Load (%)	Avg. Production Rate (pcs./hour)
Tiny (<1/4" diameter)			
Small (1/4" – 1 ½" diameter)			
Medium (> 1 ½" – 4" diameter)			
Large (> 4" diameter)			

Enter Number of Machines with Noted Capabilities/Features:

Powered Tailstock ☐ _____ Tool Sensor ☐ _____ Live Tooling ☐ _____ Tool Pre-Setting ☐ _____

CNC Milling:

Machine Type	Number of Machines	Current Work Load (%)	Avg. Production Rate (pcs./hour)
Manual (Knee Mill)			
Small Milling Center			
Medium Milling Center			
Large Milling Center (Pallet)			

Enter Number of Machines with Noted Capabilities/Features:

>3 Axis ☐ _____ Surface Contouring ☐ _____ Live Tooling ☐ _____ Tool Pre-Setting ☐ _____

Additional Equipment/Capability: _____

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ADDENDUM C - Sheet Metal Fabrication

Raw Material Experience

Aluminum ☐ Brass ☐ Steel ☐ Cold Rolled ☐ Stainless Steel ☐ Other ☐ _____

Specify Material Type/Alloy/Temper: _____

_____

_____

	YES	NO
Does the Supplier receive Raw Material Certification?	☐	☐
Does the Supplier receive Raw Material Test Analysis?	☐	☐

Additional Processes performed On-Site (OS) or Sub-Contracted (SC):

	OS	SC		OS	SC		OS	SC		OS	SC
Abrasive Blasting	☐	☐	Anodizing	☐	☐	Cad Plating	☐	☐	Chrome Plating	☐	☐
Black Oxide	☐	☐	NDI – Penetrant	☐	☐	Electroless Nickel	☐	☐	Heat Treating	☐	☐
Chem Film	☐	☐	Painting	☐	☐	Passivation	☐	☐	Powder Coating	☐	☐
NDI - Radiographic	☐	☐	Time Saver	☐	☐	Vapor Degrease	☐	☐	Deburring	☐	☐
Welding – GTAW	☐	☐	Brazing	☐	☐	Laser Cutting	☐	☐	Brake Forming	☐	☐
Welding - Resistance	☐	☐	Tool Making	☐	☐	Water Jet Cutting	☐	☐			

Number of Operators: _____ Number of Certified Operators: _____ Number of Inspectors: _____

Press/Machine Type:

Press Size	Number of Machines	Material Capacity (length, width, thickness)	Avg. Production Rate (pcs./hour)
Small (< 10 Ton)			
Medium (10 – 100 Ton)			
Large (> 100 Ton)			

Enter Number of Machines with Noted Capabilities/Features:

Single Stage ☐ _____ Multi-Stage ☐ _____ Four-Slide ☐ _____ Progressive ☐ _____

Additional Equipment/Capability: _____

ADDENDUM D - Molding Rubber / Plastics

Raw Material Experience

Nitrile (Buna N) ☐ EPR/EPDM ☐ Silicone ☐ Fluorosilicone ☐ Neoprene ☐ Fluorocarbon ☐

Other ☐ _____

	YES	NO
Does the Supplier receive Raw Material Certification?	☐	☐
Does the Supplier receive Raw Material Test Analysis?	☐	☐

Additional Processes performed On-Site (OS) or Sub-Contracted (SC):

	OS	SC		OS	SC		OS	SC		OS	SC
Abrasive Blasting	☐	☐	Anodizing	☐	☐	Dri-Film/ Micro Seal	☐	☐	Teflon Coating	☐	☐
Grinding	☐	☐	NDI – Penetrant	☐	☐	Passivation	☐	☐	Tool Making	☐	☐
Chem Film	☐	☐	NDI - Radiographic	☐	☐	Vapor Degrease	☐	☐	Deburring	☐	☐
Material Testing	☐	☐	Material Aging	☐	☐	Bonding (Vulcanizing)	☐	☐			

Number of Operators: _____ Number of Certified Operators: _____ Number of Inspectors: _____

Press/Machine Type:

Molding Types	Number of Machines	Tooling Capacity (length, width, thickness)	Avg. Production Rate (pcs./hour)
Compression			
Transfer			
Liquid Injection			

Enter Number of Machines capable of using the following tooling/molds:

Single Cavity ☐ _____ Multi-Cavity ☐ _____

Additional Equipment/Capability: _____

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ADDENDUM E - Castings / Forgings

Raw Material Experience

Al. Alloy ☐ Grade (mark all that apply): 2024 ☐ 6061 ☐ 7075 ☐ Other ☐ _____

CRES ☐ Type (mark all that apply): Martensitic ☐ Austenitic ☐ Other ☐ _____

Alloy Steel ☐ Grade (mark all that apply): 4160 ☐ 4340 ☐ Other ☐ _____

Inconel ☐ Grade (mark all that apply): Inconel ☐ Other ☐ _____

Casting Types

Investment ☐ Sand ☐ Other ☐ _____

Forging Types

Hand ☐ Die ☐ Other ☐ _____

Comments: _____

_____

	YES	NO
Does the Supplier receive/provide Raw Material Certification?	☐	☐
Does the Supplier receive/provide Raw Material Test Analysis?	☐	☐

Additional Processes performed On-Site (OS) or Sub-Contracted (SC):

	OS	SC		OS	SC		OS	SC		OS	SC
Abrasive Blasting	☐	☐	Heat Treatment	☐	☐	Dri-Film/Micro Seal	☐	☐	Teflon Coating	☐	☐
Grinding	☐	☐	NDI – Penetrant	☐	☐	Passivation	☐	☐	Tool Making	☐	☐
Chem Film	☐	☐	NDI - Radiographic	☐	☐	Vapor Degrease	☐	☐	Deburring	☐	☐
Material Testing	☐	☐	Material Aging	☐	☐	Hardness Testing	☐	☐			

Number of Operators: _____ Number of Certified Operators: _____ Number of Inspectors: _____

Press/Machine Type:

Press Size	Number of Machines	Material Capacity (length, width, thickness)	Avg. Production Rate (pcs./hour)
Small (< 10 Ton)			
Medium (10 – 100 Ton)			
Large (> 100 Ton)			

Additional Equipment/Capability: _____

ADDENDUM F - Special Process

Raw Material Experience

Aluminum Alloys ☐ Copper Alloys ☐ Stainless Steels (CRES) ☐ Alloy Steels ☐
Nickel Alloys ☐ Titanium Alloys ☐

Specify Material Type/Alloy/Temper: _____

_____

_____

	YES	NO
Does the Supplier receive/provide Raw Material Certification?	☐	☐
Does the Supplier receive/provide Raw Material Test Analysis?	☐	☐

Additional Processes performed On-Site (OS) or Sub-Contracted (SC):

	OS	SC		OS	SC		OS	SC		OS	SC
Abrasive Blasting	☐	☐	Anodizing	☐	☐	Cad Plating	☐	☐	Chrome Plating	☐	☐
Black Oxide	☐	☐	NDI – Penetrant	☐	☐	Electroless Nickel	☐	☐	Heat Treating	☐	☐
Chem. Conversion	☐	☐	Painting	☐	☐	Passivation	☐	☐	Powder Coating	☐	☐
NDI - Radiographic	☐	☐	Dip Brazing	☐	☐	Vapor Degrease	☐	☐	Deburring	☐	☐
Welding – GTAW	☐	☐	Brazing	☐	☐	Laser Cutting	☐	☐	Brake Forming	☐	☐
Welding - Resistance	☐	☐	Tool Making	☐	☐	Water Jet Cutting	☐	☐	IVD (Ion Vapor)	☐	☐
Laser Cutting	☐	☐	EDM (Wire)	☐	☐	EDM (Plunge)	☐	☐	Other _____	☐	☐

Number of Operators: _____ Number of Certified Operators: _____ Number of Inspectors: _____

Process Equipment:

Equipment Type	Number of Machines	Tooling Capacity *(length, width, thickness, number of parts)*	Avg. Production Rate (pcs./hour)
Plating Tanks			
Processing Tanks			
Rinse Tanks			
Paint/Spray Booths			
Ovens/Furnaces			

Additional Equipment/Capability: _____

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PDT REVIEW

Pacific Design Technologies, Inc. Use Only			
Audit Type:	On-Site ☐	Mail-In ☐	
Review Status:	Approved ☐	Disapproved ☐	
Reviewer Comments:			
PDT Quality Representative:	Title:	Date:	

Supplier Risk Assessment Matrix

Item	Attribute	Low Risk = 1	High Risk = 5	Value*
1.	Ability and ease of detecting a failure of the product within supplier's system	Easy to detect	Difficult to detect	
2.	Critical part	Not critical	Very critical	
3.	Quality of supplier survey	Fully Completed	Incomplete	
4.	Experience with similar parts/processes	Experienced	No Experience	
5.	3rd Party Approved	Approved	Not Approved/ Compliant	
6.	Lean & Waste Reduction	Established Practices	No Practices	
	Note: Assign numbers (between 1-5 for each attribute) considering degree of risk, ranging within the noted boundaries.		**Score ➔**	0

Scoring:

A supplier with a score in the range of 22-26 will require an on-site audit

A supplier with a score in the range of 14-21 could require a on-site depending on which attributes are risky (i.e. difficult to detect and a very critical part would require a on-site)

A supplier with a score in the range of 6-13 typically will not require a on-site