

BEACON INDUSTRIES, INC.
PURCHASE ORDER QUALITY ASSURANCE CLAUSES

(Dec. 2, 2010 Rev. H)

TYPE	CODE	SUBJECT	QA REQUIREMENT CLAUSE
STD	A	CERTIFICATIONS	All certifications must be signed by supplier Quality Control Manager or Designee with name and title printed adjacent/below signature. A certification of compliance or certification of service or inspection performed to a defined specific specification is required.
STD	AK	Handling and Storage	Supplier shall provide a system that will pack and protect parts, and protect during handling and storage of material and parts in a manner to protect product quality from damage, loss, deterioration, contamination, corrosion, degradation, or substitution.
STD	AAR	Commercial Terms	THIS IS A CONFIRMING ORDER DO NOT DUPLICATE THIS PURCHASE! SHIPPING BY SOURCE OTHER THAN THOSE INDICATED ON THE FACE OF THIS P.O. MAY RESULT IN A REJECTION OF THE SHIPMENT AND RETURN TO YOUR FACILITY AT YOUR EXPENSE. PAYMENT TERMS ARE NET 60 DAYS. C.O.D. & OVER SHIPMENTS WILL NOT BE ACCEPTED UNLESS AUTHORIZED BY BEACON PURCHASING.
STD	ABJ	QA System	ISO 9001 or AS9100 or Mil-I-45208A or Equivalent Quality Systems Required.
STD	ABK	Calibration System	ISO 10012-1 or ANS1 2540-1 or MIL-I-45208A Calibration System is Required.
STD	ABP	Compliance	Supplier shall comply with all specifications stated or included by reference in this Order and contained in supplier's product literature or proposal to the extent consistent with this Order. The requirements and specifications in this Order shall take precedence over any supplier referenced specifications or terms.

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STD	AE	Right of Entry and Witness	Beacon Industries and Beacon's customers and/or Regulatory agencies shall have the right of entry to your facility to review product owned by Beacon or Beacon's customers. Beacon Industries and Beacon's customers and/or Regulatory agencies shall be granted the right to witness supplier manufacturing operations, inspections and testing on the product owned by Beacon or its customers, and to conduct supplier manufacturing operation and processing inspections and/or tests, as necessary, to verify conformance of materials and services to applicable specifications and P/O requirements. The supplier shall provide Beacon with reasonable access to facilities, equipment, records, and assistance as required in the course of verifying compliance.
STD	AH	Satisfaction of PO Requirements	The requirements of this P/O shall be satisfied, in addition to all detailed requirements specified or referenced in the P/O referenced Drawings (DWGs) and specifications.
STD	AM	Preparation for Shipment	1) Supplier shall assure that parts are manufactured and completed to P/O requirements and that all manufacturing and product acceptance requirements have been satisfied prior to shipment. 2) Supplier shipment prep system shall be designed to ensure that material is packed in accordance with applicable requirements to prevent product damage and insure part safety during transportation, and that shipment is accompanied by required shipping and technical documents.
STD	AR	Supplier Acknowledgement	This QA requirement pertains to supplier acknowledgement of receipt and confirmation of requirements of this P/O by signing, dating and returning the blue copy of this P/O to Beacon Industries, Inc., Purchasing Department (affix signature and date in area provided on face of the PO).
STD	AY	Revision Notification	Suppliers are required to notify Beacon Industries as soon as practical of any Drawing specification (Spec), standard, or other required technical data, which is more current (either date or revision) than technical data provided for this P/O.

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STD	M	Deviations	Any deviation in the requirements of this P/O must be approved in writing by Beacon Industries' QA Manager or his/her designee, before work is started or continued.
GENERAL	AAG	P.O. Supplement without QA effect	This P/O supplement issued has no change or no effect on the quality requirements identified to the original P/O. Supplier must advise Beacon Industries Purchasing Department if this supplement cannot be incorporated or implemented.
GENERAL	AAH	P.O. Supplement with QA effect	This P/O supplement issued changed or had an effect on the quality requirements identified to the original P/O. Supplier must advise Beacon Industries Purchasing Department if this supplement cannot be incorporated or implemented.
GENERAL	AAI	First Piece Inspection	First Piece Approval for each set-up is required by Beacon QA prior to continuation.
GENERAL	AAJ	S/N, Heat Code & Suffix	Serial Numbers and/or Heat Code/Suffix must be maintained for each piece. Record numbers prior to removal and re-identify immediately after completion.
GENERAL	H	Quality Plan Approval	Supplier Manufacturing Plan and Quality Plan & Procedures must be submitted for Beacon review and approval before processing of any type begins.
GENERAL	I	First Article	Beacon Industries requires First Article inspection approval of this part prior to processing of this production lot. Additionally, copies of supplier's first article inspection report must accompany shipment of this First Article piece.
GENERAL	J	Data/Certs.	Chemical and physical property data and related certifications and laboratory test data results are required prior to shipping material or must accompany shipment of the part(s) defined by this P/O.

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GENERAL	K	Test Samples	Samples of suitably sized materials used to either fabricate, produce raw material, or forgings etc., for this part, or a treated witness panel representative of the process used to treat this part, must be furnished with this initial shipment. Suitably sized samples will be required to complete compliance testing to applicable specifications defined by this P/O.
GENERAL	L	Caution - TITANIUM	Material furnished for the parts defined by this P/O is fabricated from a Titanium alloy. Take appropriate action and precaution to handle, clean, and treat this part correctly. DO NOT vapor degrease this titanium part or material with chlorinated or fluorinated solvents. DO NOT alumina grit blast this part or material to surface prep or clean using grit blasting techniques. DO NOT permit this titanium part to come in contact with copper and/or heavy metals that may cause embrittlement or predispose the part to fatigue damage.
GE	ABR	GE Contract No.	The following GE Contract Number applies to this P/O:_____ .
GE	AD	GE S -1000	This QA requirement applies to the subcontract processing of GE engine components. Refer to GE Supplier Quality System Specification S-1000 for details.
GE	AX	GE-VSE	This P/O requires General Electric Vendor Substantiation (VSE) approval.
GE	E	GE End-Use	This part is for General Electric (GE) end-use. When processing this order, reference the latest revision of GE specification S-1000 to insure compliance of all quality requirements.
GE	ABY	S-400 / S-450 Material Control	Laboratory controlled source required per S-400 / S-450. (Materials, parts and details) applies to this purchase order.
GOV	AAE	DPAS Rating	The following US Government Contract No. and DPAS Rating applies to this P/O: ____.

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GOV	ABN	Government QA & Priority	THIS PART IS FOR A US GOVERNMENT CONTRACT. PRIORITY RATING CERTIFIED FOR NATIONAL DEFENSE USE UNDER DPS REG. 1 AND ALL OTHER APPLICABLE REGULATIONS AND ORDERS OF DIBA IN OBTAINING CONTROLLED MATERIALS AND OTHER PRODUCTS AND MATERIALS NEEDED TO FILL THIS ORDER. GOVERNMENT CONTRACT NUMBER AND RATING IS SHOWN ON THE FACE OF THIS P.O. QUALITY REQUIREMENTS ARE MIL-I-45208A AND 15010012-1 OR ANSI 2540-1.
GOV	ABQ	Gov. Contract No.	The following US Government Contract No. applies to this P/O: _____.
GOV	ABT	SOLAR	Part is for SOLAR TURBINE End Item Use.
GOV	F	Government End-Use	This part is for Government End Use- Government Inspection may be required for First Piece and/or First Article lots, prior to shipment from your plant. Upon receipt of this P/O, promptly notify a qualified government representative who normally provides inspection services for your plant so that appropriate planning for government inspection can be implemented.
GOV	ABX	FAR Clauses	The following Clauses are hereby incorporated by reference: _____ . These Clauses may be accessed electronically at the following address: http://www.dscr.dla.mil/proc/CLAUSES/clauses.html
P&W	AAA	RCC Number Applicability	All material, parts, item, coating, surface treatment, heat treat, or other special process shall be in accordance with all special instructions noted on this specific RCC requirement. Any additions or deletions noted to the requirements of this RCC shall be submitted and approved by Beacon Industries in writing prior to starting work specified in this P/O. The following Requirement Control Card number (RCC) applies to this P/O:_____.

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TYPE	CODE	SUBJECT	QA REQUIREMENT CLAUSE
P&W	AAB	QAD Card Number Applicability	The following Quality Assurance Data (QAD) card number applies to this P/O. All materials, parts, services, coatings, surface treatments, heat treatments, or special processes shall be in accordance with all special instructions noted on this specific QAD requirement. Any additions or deletions noted to the requirements of this QAD shall be submitted to and approved by Beacon Industries in writing prior to starting work specified in this P/O. The following Quality Assurance Data (QAD) applies to this P/O: _____.
P&W	AAD	PWA Contract No.	The following PWA Contract Number applies to this P/O: _____ .
P&W	AAK	PWA Source Inspection	P & W Source Inspection required.
P&W	AAL	PWA MCL F-40	This QA requirement applies to Heat Treatment and Case Hardening. PWA MCL Manual Section F-40 applies to these materials. See Section F-40 of the Manual for details.
P&W	AB	PWA MCL J-32	This QA requirement applies for all PWA forgings. PWA MCL Manual Section J-32 applies to these materials. See Section J-32 of the Manual for details.
P&W	ABI	Prime Reliable Part	This part is a PRIME RELIABLE PART.
P&W	AC	PWA MCL F-4	This QA requirement applies to the control of materials used to fabricated parts from steel, heat and corrosion resistant alloy forgings and rolled rings for NON-ROTOR applications. PWA MCL Manual Section F-4 applies to this material and usage. See Section F-4 of the Manual for details.
P&W	AN	PWA MLC F-2	This QA requirement pertains to the control of aluminum, magnesium and copper alloy forgings and rolled rings. Refer to MCL Manual Section F-2 for details that are applicable to this QA requirement.

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TYPE	CODE	SUBJECT	QA REQUIREMENT CLAUSE
P&W	AP	PWA-310	This QA requirement pertains to supplier part or material marking control, including requirements to define, specify, and control marking methods that ensure positive identification of materials and items, and establish item marking requirements for identification purposes. Refer to PWA-310 for details pertinent to this QA Requirement.
P&W	AT	PWA Engineering Source Approval (ESA)	Supplier must have PWA-370 ESA approval to work on this P/O. PWA-370 Engineering Source Approval requirements apply to this P/O. PWA process sheet approval required. Upon receipt of ESA approval from P&W, the supplier is required to fax and mail copies of the ESA approval signature document to Beacon Industries.
P&W	AU	Major Rotor Part	This is a MAJOR ROTOR PART.
P&W	AV	PWA-QA-6071 Suffix Numbers and Heat Codes	This P/O requires the use of Heat Codes and Suffix Numbers per the requirements of PWA-QA-6071.
P&W	AW	PWA-QA-6071 Heat Codes	This P/O requires the use of Heat Codes per the requirements of PWA-QA-6071.
P&W	B1	P&W End-Use	This part is for Pratt & Whitney (P&W) end use and control must be in accordance with PWA-300, PW-QA-6088, ASQR-01 and PW-QA-6078 for Raw Material Suppliers.
P&W	B2	LCS Material MCL F-17	P&W Laboratory Controlled Source required per PWA-MCL Manual Section F-17 (materials, parts, and assemblies subject to P&W Laboratory Controlled at Source) applies.
P&W	C	Vendor QA, First Article	PWA vendor supplier quality assurance control acceptance required for this contract prior to shipment from your facility. This requirement applies to first piece shipment only. The first piece must be tagged (without damage to hardware) with the following statement "First Article".

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TYPE	CODE	SUBJECT	QA REQUIREMENT CLAUSE
P&W	N	PWA MCL F-3	This QA requirement applies to NON-AIRFOIL ROTOR applications. PWA MCL Manual Section F-3 control of steel, heat and corrosion resistant alloy forgings and rolled rings applies to this material and usage. See Section F-3 of the Manual for details.
P&W	O	PWA MCL F-12	This QA requirement applies to TITANIUM ALLOY forgings and rolled rings for ROTOR (except blades) applications. PWA MCL Manual Section F-12 applies to this material and usage. See Section F-12 of the Manual for details.
P&W	P	PWA MCL F-13	This QA requirement applies to parts fabricated from or raw material consisting of FLASH WELDED RINGS or RINGS PRECISION ROLLED from FLASH WELDED RINGS. PWA MCL Manual Section F-13 applies to this material and usage. See Section F-13 of the Manual for details.
P&W	Q	PWA MCL F-14	This QA requirement applies to parts fabricated from or raw material in the form of WROUGHT EXTRUDED BAR, ROD, TUBE, PLATE, SHEET, STRIP, and WIRE for NON-ROTOR applications. PWA MCL Manual Section F-14 applies to this material and usage. See Section F-14 of the Manual for details.
P&W	R	PWA MCL F-22	This QA requirement applies to control of CHEMICAL and METALLURGICAL PROCESSING of parts and materials. PWA MCL Manual Section F-22 applies to this processing. See Section F-22 of the Manual for details.
P&W	S	PWA MCL F-23	This QA requirement applies to the control of CHECK and CALIBRATION of LABORATORY/INSPECTION equipment. PWA MCL Manual Section F-23 applies to this processing. See Section F-23 of the Manual for details.

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TYPE	CODE	SUBJECT	QA REQUIREMENT CLAUSE
P&W	T	PWA MCL F-26	This QA requirement applies to the control of DIRECT PROCUREMENT of ROTOR PART FORGINGS and ROLLED RINGS formed materials by machining vendors. PWA MCL Manual Section F-26 applies to this processing. See Section F-26 of the Manual for details.
P&W	U	PWA MCL F-27	This QA requirement applies to the control of POWDER used for PLASMA and FLAME SPRAY, PACK CEMENTATION COATING or similar coating processes. PWA MCL Manual Section F-27 applies to this processing. See Section F-27 of the Manual for details.
P&W	V	PWA MCL F-28	This QA requirement applies to control of TITANIUM ALLOY forgings and rolled rings for NON-ROTOR applications/ PWA MCL Manual Section F-28 applies to this material and usage. See Section F-28 of the Manual for details.
P&W	W	PWA MCL F-35	This QA requirement applies to the control of THERMAL SPRAY, PWA-44 DIFFUSION, and PWA PLASMA COATINGS or similar coating processes used by coating vendors. PWA MCL Manual Section F-35 applies to this type of processing. See F-35 of the Manual for details.
P&W	X	PWA MCL F-43 & F-44	This QA requirement applies to the control of ELECTROCHEMICAL, MACHINING, ELECTRO-DISCHARGE, and LASER metal removal processes. PWA MCL Manual Section F-43 & F-44 apply to this type of processing. See both Sections of the Manual for details.
P&W	Y	PWA MCL F-45	This QA requirement applies to control of THREADED FASTNERS and TIE ROD NUTS details. PWA MCL Manual Section F-45 applies to these components. See Section F-45 of the Manual for details.
PWA	ABU	FLIGHT SAFETY PART	This is a FLIGHT SAFETY PART. ASQR-09.1 applies.

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	PWA	ABZ	PWA MCL F-64	This QA requirement applies to the control of PEENING. PWA MCL Manual Section F-64 applies to this type of processing. See F-64 of the Manual for details.
	PWA	ACA	PWA MCL F-52	This QA requirement applies to the control of NONMETALIC RAW MATERIALS. PWA MCL Manual Section F-52 applies to this type of processing. See F-52 of the Manual for details.
	PWA	ACB	PWA MCL F-42	This QA requirement applies to the control of ADHESIVE BONDED ASSEMBLIES. PWA MCL Manual Section F-42 applies to this type of processing. See F-42 of the Manual for details.
	PWA	ACC	PWA MCL F-31	This QA requirement applies to the control of TITANIUM ALLOY CASTINGS. PWA MCL Manual Section F-31 applies to this type of processing. See F-31 of the Manual for details.
(H)	PWA	ACD	PWA 79345	Process certification per UTCQR-09.1 applies. Control plans required to be submitted and data forwarded to Beacon Industries.
(H)	PWC	AAS	PWC ESA	Part is ESA controlled per CPW135 and SQOP 01-07. The current approved process plan must be utilized in the processing of this P.O. No changes allowed without prior PWC approval.
(H)	PWC	ABM	P & W Canada (PWC)	Part is for Pratt & Whitney Canada End Item Use and control must be in accordance with SQOP 01-01 and ASQR-01.
(H)	PWC	ACK	FLIGHT SAFETY PART	This is a FLIGHT SAFETY PART. ASQR-09.1 applies.
(H)	PWC	ACL	UTCQR-09-1	Process certification per UTCQR-09.1 applies. Control plans required to be submitted and data forwarded to Beacon Industries.
(H)	SOLAR	ABS	SOLAR	Part is for SOLAR TURBINE End Item Use.
(H)	MTU	ACE	MTU END USE	This part is for MTU end use and control must be in accordance with the latest revision of MTN94111. Please refer to the latest revision of all required MTU specifications.
(H)	MTU	ACF	GE S -1000	This QA requirement applies to the subcontract processing of GE engine components. Refer to GE Supplier Quality System Specification S-1000 for details.

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(H)	MTU	ACG	ASQR-01	This QA requirement applies to the subcontract processing of PWA engine components. Refer to PWA Supplier Quality System Specification ASQR-01 for details.
(H)	MTU	ACH	MAJOR ROTOR PART	This is a MAJOR ROTOR PART.
(H)	MTU	ACI	MTU Contract No.	The following MTU Contract Number applies to this P/O:
(H)	MTU	ACJ	MTU Engineering Source Approval (ESA)	Supplier must have CMT production approval to work on this P/O. MTV-3 Engineering Source Approval requirements apply to this P/O. MTU process sheet approval required. Upon receipt of CMT/PAR approval from MTU, the supplier is required to fax and mail copies of the CMT/ PAR approval signature document to Beacon Industries.
(H)	GLG	ACR	Goodrich Landing Gear (Boeing) End Use.	This part is for Goodrich Landing Gear end use and control must be in accordance with the latest revision of Document 200. Please refer to the latest revision of all required GLG specifications specified within.
(H)	GLG	ACS	Goodrich Landing Gear (Boeing) End Use.	This part is for Goodrich Landing Gear end use and control must be in accordance with the latest revision of Document 300. Please refer to the latest revision of all required GLG specifications specified within.
(H)	VERICOR	ACM	VERICOR QUALITY SYSTEM VQDP	This part is for Vericor customer end-use and control must be in accordance with the latest revision of Vericor VQDP manual. Please refer to the latest revision of all required Vericor specifications specified within and drawings supplied.
(H)	VERICOR	ACN	Government Source Inspection	This part is for Government End Use- Government Inspection may be required for First Piece and/or First Article lots, prior to shipment from your plant. Upon receipt of this P/O, promptly notify a qualified government representative who normally provides inspection services for your plant so that appropriate planning for government inspection can be implemented.

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(H) VERICOR	ACO	Vericor Fixed Processes	Supplier must have Vericor Fixed Process approval to work on this P/O. Supplier providing this fixed process must be a Vericor Approved Supplier and possess a Vericor Vendor code prior to performing requested Fixed Process. Process sheet approval required. Upon receipt of Vericor Fixed Process approval from Vericor, the supplier is required to fax and mail copies of the approval signature document to Beacon Industries.
(H) VERICOR	ACP	Vericor Acceptance Test Procedure (ATP) Approval Required	Vericor Acceptance Test Procedure is required and control must be in accordance with the latest revision of Vericor VQDP 109. Please refer to the latest revision of all required Vericor specifications specified within and drawings supplied.
(H) VERICOR	ACQ	Vericor Controlled Process Approval Required	Vericor Controlled Process Approval required in accordance with the latest revision of Vericor VQDP 117. Please refer to the latest revision of all required Vericor specifications specified within and drawings supplied. Supplier must possess Vericor Form numbers MFF-0001 and MFF-0002 prior to performing contracted service.