



Form Name: Quality Assurance Provisions

Form ID: QAP-1

Revision: G

Review and Approval By: Steve Ferrell

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AMG, Inc. Quality Assurance Provisions

QAP1	Acceptance at Destination	Items / Services delivered on this Purchase Order are subject to final inspection and acceptance by AMG, Inc.
QAP2	Certificate of Conformance (C of C)	Certificate of Conformance (C of C) required. The C of C is to certify that all items supplied conform to specified requirements. The C of C must contain the following; <ul style="list-style-type: none">* Supplier Identification,* Date,* AMG, Inc. Purchase Order number,* Quantity,* Serial number or lot number traceability* Complete description of all materials, processes and specifications performed.* Name/Title and Signature of an appropriate authorizing representative.
QAP3	Minimum Inspection System	The items delivered on this Purchase Order shall be controlled by the supplier / manufacturer under a recognized Quality Inspection System sufficiently adequate to verify that the material or service furnished meets all requirements of this Purchase Order.
QAP4	Quality Control System	The suppliers on this Purchase Order must be controlled under a Quality Control System that conforms to the requirements of the current acceptable revision of the ISO 9001 or AS 9100 Quality Management System Standards or equivalent.
QAP5	First Article Inspection	On the first initial production and the first article produced subsequent to design change incorporation, the supplier shall perform and document a comprehensive lay-out, inspection and document a comprehensive lay-out, inspection and test of that article to assure its conformance with all blue print and specification requirements. The supplier's report shall provide as a minimum; purchase order number, revision level, part name, supplier's name, method used to obtain results and actual results of each measurement or test. Parts used for inspection shall be identified when shipped to AMG, Inc. as "First Article Inspection Sample" first article data, regardless of format, shall be sent to AMG, Inc., attention Incoming Inspection. If the part requires functional testing, in addition equipment and the calibration date of the equipment used.
QAP6	Repeat First Article	The First Article as described in QAP5 must be repeated if any of the following conditions occur: <ul style="list-style-type: none">* Major process or material change* Change in location of the manufactured item* A lapse of one (1) year or more since the last delivery of any item requiring a First Article
QAP7	Material Certs Required	The material stated within this purchase order requires material certification and test reports that include the following; <ul style="list-style-type: none">* Raw Material - material type, specification, lot number, heat number, etc.* Physical - tensile strength, yield strength, percent elongation, hardness, etc.* Chemical - show composition of metals in percent, % gold, % silver, % copper, etc.



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QAP8	AS 9100 Requirements	<ul style="list-style-type: none">* QMS - The supplier shall maintain a documented Quality System that addresses the following areas;<ul style="list-style-type: none">* Document Control* Record Control* Nonconforming Material Control* Internal Audits* Corrective Action and* Preventive Action* Production - Production shall be documented and take place under controlled conditions.* Nonconformance - The supplier shall notify the Buyer of product, process or test anomalies within 24 hours of discovery. Formal notification of non-conformances shall be in writing and in the supplier's format within 48 hours of confirmation and include;<ul style="list-style-type: none">* Description of nonconformance, with requirement and actual condition* Recommended disposition including justification.Supplier shall not ship nonconforming material to AMG, Inc. without written authorization from the Buyer. In the event a nonconformance is discovered that affects previously delivered product, the supplier shall notify the Buyer in writing of the condition within 24 hours of discovery. Notification must include defect description and identification traceability of the affected material by lot, serial, delivery or date code numbers.* Changes - The supplier must notify the Buyer if there are any changes to products that include but are not limited to any changes in product definition (part number or description), Manufacturing location, Processes, Equipment, Sub-tier Suppliers or Base/Raw Materials.* Flow Down - The supplier shall flow all applicable Quality Clauses on this order to sub-tier suppliers.* Right of Access - AMG, Inc., its customers and regulatory agencies reserve the right of access to the supplier's facility at any reasonable time during performance of the Purchase Order and to all applicable records.* Ensure that employees are aware of:<ul style="list-style-type: none">* their contribution to product and service conformity;* their contribution to product safety;* the importance of ethical behavior.
QAP9	NAFTA Certification of Origin	A North American Free Trade Agreement Certificate of Origin must accompany each shipment or lot of material to be delivered to AMG, Inc. An annual blanket of Certificate of Origin may apply if multiple shipments are made from a single original manufacturing or procurement lot.
QAP10	Traceability	Each part, component or assembly furnished on this Purchase Order shall be identified with a distinct serial number. The Serial number shall not be duplicated on one (1) part, component or assembly number when manufactured. The buyer will provide instruction as to where and how the part, component or assembly is to be serialized.



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QAP11	Lot Traceability	Each part, component or material quantity furnished shall be identified by lot, or batch traceable to the actual manufacturing process. The lot or batch number may be by date or supplier shop order code, but must provide the capability for a lot or batch purge in the event of determination of a condition or discrepancy. There shall be no mixing of manufacturer's lot / batch in a given shipment (i.e. each shipment shall be of a homogeneous lot). Identification shall be per MIL-STD-130, or in the applicable specification.
QAP12	DPAS Requirements Apply	The items delivered on the Purchase Order must be processed in accordance with the Defense Priorities and Allocations System (DPAS) requirements, per 15 CFR 700, and the DOD ratings as supplied within this Purchase Order document
QAP13	AS9102 First Article Inspection	A First Article Inspection report must be completed by the supplier, in accordance with the requirements of AS9102, and delivered with the first lot of material. The First Article must be repeated if any of the conditions stated in paragraph 5.3 of AS9102 exist.
QAP14	ITAR Requirements	This Purchase Order document may contain ITAR controlled technical data as defined by 22 CFR 120.10 and may not be forwarded or disclosed to any Foreign Person or Non-US Citizen, as defined by 22 CFR 120.16, without prior authorization and written consent of the Department of State and AMG, Inc.
QAP15	Inspection / Test Data	<p>The supplier shall perform inspection (e.g. dimensional, electrical, x-ray, dye penetrant, etc.) in accordance with the drawing and/or specification as it pertains to the work performed by the supplier and/or as required by the AMG or customer Quality Inspection Report.</p> <p>*Note: If QAP15 is applied to a Purchase Order without "A" or "B" denoted, the supplier shall default to the requirements of "A".</p> <p>A. Unless otherwise specified or approved by AMG in writing, the supplier shall provide an Inspection Report in a format sufficient to meet this requirement for each item shipped against the order. Sampling is prohibited unless agreed to in writing by AMG and/or AMG's customer.</p> <p>B. A Quality Inspection report will be prepared by AMG or AMG's customer and will be provided by the purchasing agent who places the PO with the supplier. The supplier shall provide the completed Quality Inspection report for each item shipped against the order. Sampling is prohibited unless agreed to in writing by AMG or AMG's customer.</p>
QAP16	Key Characteristics Data	Key characteristics, identified in the data provided by the AMG, Inc. Buyer, shall be measured, controlled and monitored through an established process. Records of controls shall be submitted with each shipment and shall include the complete dataset for the product being shipped.
QAP17	Configuration Control	The supplier shall make no change in design, manufacturing, or assembly process or source of supply, after approval of the first production test item or after acceptance of the first completed end item, without written approval from the buyer.



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QAP18	Calibration System	The supplier shall control all inspection and test equipment used for acceptance of deliverable items covered by the Purchase Order in accordance with ISO 9001, ISO 10012-1 or equivalent. The supplier's calibration system is subject to review and approval by AMG, Inc. Quality Assurance at all times during the performance of this Purchase Order.
QAP19	Traceability to Raw Materials	<p>All items fabricated under this Purchase Order shall be traceable to raw materials used. All traceability and inspection records must be identifiable with raw materials, parts or assemblies to which they are applicable and shall be available upon request or audit by AMG, Inc. representatives.</p> <ul style="list-style-type: none">* Raw materials used shall be identified by lot number as well material type, specification, heat number, etc. and shall be identifiable with the lot of raw materials used when two (2) or more parts are joined in an assembly. The seller shall prepare an Assembly Parts List identifying each in the assembly and the lot of raw material from which it was fabricated,* All materials fabricated by the seller in one (1) lot shall be identifiable to that lot when supplied to AMG, Inc. When the seller is combining material fabricated in two (2) or more different lots to fulfill purchase order requirements, these materials shall be segregated and identifiable to the lot in which it was fabricated.* The seller shall request, from the buyer, written authorization to submit materials fabricated in two (2) or more lots to fulfill the total quantity of each item on this purchase order. <p>*Note: If QAP19 is followed by the suffix "A", then the following applies to this purchase order.</p> <p>A. All items fabricated under this purchase order shall comply with the above. All traceability and inspection records must be identifiable with raw materials, parts or assemblies to which they are applicable and must accompany each shipment.</p>



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<p>QAP20</p>	<p>Restriction of Prohibited Material</p>	<p>A Certificate of Analysis (C of A), addressing each prohibited material below, shall accompany each shipment:</p> <ul style="list-style-type: none"> * Mercury (in any form) * Unfused tin-lead plate * Cadmium, selenium or zinc (except as an alloying material or when used internal to a hermetically sealed device.) * Pure tin (<97% - fused or infused) * Zinc chromate as a finish coat <p>This prohibition includes, but is not limited to plating, coating or cast materials. This prohibition is applicable to all surfaces both internal and external to the product except as noted above.</p> <p>*Note: If QAP20 is applied to a Purchase Order without "A" or "B" denoted, the supplier shall default to the requirements of "B".</p> <p>A. Items purchased on this PO require a Certificate of Conformance (C of C) certifying that no prohibited materials are present.</p> <p>B. A Certificate of Analysis (C of A), addressing each prohibited material above, shall accompany each shipment.</p> <p>The supplier shall include the requirement in all subcontracts or purchase orders.</p>
<p>QAP21</p>	<p>Restriction of Hazardous Substances Declaration (RoHS)</p>	<p>The supplier shall provide with each delivery a certificate of compliance that states either (1) all items supplied are within the limits for hazardous substances as established by EU directive 2011/65/EU (and subsequent amendments), or (2) in the event of non-compliance, which items are non-compliant and the identity of the hazardous substance that exceeds the limits. For the purpose of this QAP all supplied articles and substances are to be considered components of commercial electrical equipment that falls within the scope of RoHS. The "CE" mark and "RoHS" appearing on the item or corresponding documentation is acceptable as RoHS compliance certification.</p>
<p>QAP22</p>	<p>Material Safety Data Sheet(s) (MSDS)</p>	<p>Material Safety Data Sheet(s) MSDS required. (All materials that are volatile, toxic or emit fumes, which may be harmful to human health, shall be properly contained in accordance with applicable Code of Federal Regulations. The containers must be plainly marked as to the contents with appropriate warnings, precautions, instructions and storage conditions.)</p>
<p>QAP23</p>	<p>Supplier Document Retention</p>	<p>The supplier shall maintain all documentation related to the product supplied on this purchase order for a period indicated by the designator below and be able to provide copies of documentation within a period of (5) business days when when requested by AMG, Inc.</p> <p>QAP23A - 7 years QAP23B - 10 years QAP23C - 20 years QAP23D - 30 years QAP23E - 50 years QAP23F - Life of Program QAP23G - Indefinite</p>



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QAP24	Special Process Approval	Supplier must be approved by AMG, Inc. and/or our customer prior to performing special processes (Example: soldering, cleaning, x-ray, welding, magnetic particle and penetrate inspection, heat treating, plating, conversion coating, painting, etc.). When this QAP is invoked via the PO, the vendor must include the following additional information on the C of C required by QAP2 or on a separate Certificate of Conformance: (1) Special Process being performed, (2) Specification and specification revision that Special Process was performed to, (3) Name and address of Vendor performing Special Process, (4) expiration date of Special Process approval and (5) name of Special Process approval authority (i.e. NADCAP, etc.) and expiration date of Special Process approval. Concurrence with Special Process approval authority must be received from AMG prior to the vendor processing parts per the PO. The supplier shall have lot acceptance and process control on file and available for review.
QAP25	Packing / Packaging	The supplier shall not use newsprint for wrapping parts or as dunnage due to its acidic nature. Staples may not be used at any time due to the possibility of Foreign Object Damage (FOD). The supplier shall ensure all items are adequately packed and packaged to prevent damage or contamination during the normal course of shipment and to assure acceptance by a common carrier. Best commercial practices to prevent damage during shipment is acceptable. *Note: If QAP25 is followed by the suffix "A", then the following also applies to this purchase order. A. Machined parts and sub components shall be individually separated and secured to prevent movement and damage during shipping.
QAP26	Foreign Object Damage/Debris (FOD) Prevention	The supplier shall establish and maintain an effective Foreign Object Damage/Debris (FOD) Prevention Program to reduce FOD using NAS412 as a guideline. The supplier's program shall utilize effective FOD prevention practices. The written procedures and/or policies developed by the supplier are subject to review and audit by an authorized AMG, Inc. representative. By delivering items to AMG, Inc., the supplier certifies that such items are free from any foreign materials that could result in foreign object damage. A. General Housekeeping B. FOD Awareness - Low risk level is defined as exposure to foreign objects will have minimal negative effect to form, fit and function of hardware. C. FOD Controlled - Medium risk level is identified as exposure to foreign objects may degrade the form, fit and function of components, systems, and/or assemblies, which could lead to substandard performance of product. D. FOD Critical - High risk level is defined as exposure to foreign objects, entrapment and/or migration of foreign objects into hardware which could cause serious damage to form, fit and function of components, systems, and/or assemblies which could lead to product deterioration, malfunction, and/or complete product failure.



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QAP27	Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)	"The supplier shall certify that each item supplied contains no more than 0.1% by weight of any Substance of Very High Concern (SVHC) as established by EU regulation 1907/2006 (REACH) Article 33 (Annex XIV), last updated 19 December, 2011 (and subsequent amendments) as published by the ECHA, and that each item supplied shall not violate the restrictions of 1907/2006 (REACH) Article 67 (Annex XVII) and subsequent amendments. The supplier is to be compliant at the date of order acceptance."
QAP28	Welder's / Inspector's Stamp	Each welded assembly, or the documentation accompanying each welded assembly, shall be stamped or marked by a certified welder and inspector in accordance with SAE-AMS-2219.
QAP29	Individually Bag Parts	The supplier shall package each part individually in a clean, clear plastic bag.
QAP30	In-Process Inspection Check Sheet	An in-process inspection check sheet has been created and must be completed by the operator(s) performing the operations listed on the check sheet.
QAP31	Deburring Requirements	<p>Deburring Method - Unless otherwise specified, the method of deburring shall be optional, except that deburring shall not affect the finish, squareness of the part nor cause any dimension to exceed its specified tolerance.</p> <p>Burr Classification - Maximum permissible burr shall be of such size that it cannot be observed using the following typical means of inspection.</p> <ul style="list-style-type: none">* QAP31A - Standard Microscope with 30X magnification* QAP31B - Standard Microscope with 20X magnification* QAP31C - Standard Microscope with 9X to 12X magnification* QAP31D - Jewelers loupe or glass with 4X to 7X magnification
QAP32	DFARS Requirements Apply	The product(s)/material stated within this purchase order must be in compliance with the Defense Federal Acquisition Regulation Supplement, DFARS 252.225-7014
QAP33	Export Administration Regulations (EAR) Apply	The product(s) stated within this purchase order are controlled by the U.S. Department Of Commerce Export Administration regulations 15 CFR 730-774 as EAR99. Export or disclosure to foreign persons may violate U.S. Federal regulations.
QAP34	NIST Traceable	All product(s)/services stated within this purchase order must be traceable to the National Institute of Standards and Technology (NIST).
QAP35	FAR Requirements Apply	The product(s)/material stated within this purchase order must be in compliance with the Federal Acquisition Regulation (FAR) Government Contract Provisions.



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QAP36	Statement of Quality	The supplier will submit a Statement of Quality to certify that all required inspections have been performed. This statement must be signed by an authorized agent of the supplier or laboratory with appropriate identification of the position held by the signer. Acceptable statements of quality should identify completely the material or item by lot number, production date or serial item number. State the specification or the drawing number, revision and date; the grade, type or value for which the product was inspected, the number of specimens inspected, whether the test was a go, no-go or variable test, the location and date of inspection and where actual records will be available for review by contractor or government personnel. A Statement of Quality must accompany each shipment of material.
QAP37	Time and Temperature Sensitive Material	Time and temperature storage conditions must be attached to the packing sheet and accompany each shipment to be delivered. The outer-most shipping container must be marked to indicate "Time and Temperature Sensitive Material" and "Temperature Storage Range in Degrees."
QAP38	Shelf Life	Materials furnished against this purchase order shall have a minimum of 75% of its shelf life remaining at the time of delivery. Compliance with QAP37 must also be met, if the material is time and temperature sensitive. Suppliers must also provide an expiration date for the material on their Certificate of Compliance, or the material labels must reflect the expiration date.
QAP39	Chemical Substances	Supplier certifies that all chemical substances in this shipment are on EPA's TSCA (Toxic Substances Control Act) Inventory and comply with all applicable rules and orders under TSCA.
QAP40	Material Review	AMG Quality shall retain MRB authority on dispositions for any discrepancies affecting product performance and/or drawing requirements other than scrap or rework. Non-conforming material is to be identified, segregated and controlled to prevent its unauthorized use for shipment. The cause of such non-conformances are to be identified and corrected.
QAP41	Government / Industry Standards	Materials referenced in this Purchase Order (PO) that are controlled by Government or Industry Standards (e.g. Military Standard, S.A.E. Standard, ANSI Standard) shall be supplied to the latest issue / revision in effect at the time of PO placement unless otherwise specified by the Purchase Order.
QAP42	RoHS Compliance (not required)	RoHS compliance is not required on this purchase order. However, RoHS compliant hardware may be substituted, as necessary, during performance of this contract but RoHS certification data is not required with the shipment.
QAP43	Conflict Minerals	The product(s) / material(s) stated within this Purchase Order (PO) must comply with the Dodd-Frank Wall Street Reform and Consumer Protection Act, Section 1502 prohibiting the contents of "Conflict Minerals". By acceptance of this PO, the supplier declares that the product(s) / material(s) supplied: 1) Do not contain Tantalum, Tin, Tungsten or Gold that are necessary to their production or functionality, or, 2) If they contain any of these minerals, that such minerals originate from non-conflict areas or from recycled or scrap sources.



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QAP44	RoHS Compliance (no C of C required)	The supplier shall certify that all items delivered on this Purchase Order (PO) are within the limits for Hazardous substances as established by EU directive 2011/65/EU (and subsequent amendments). However, no Certificate of Conformance (C of C) is required.
QAP45	Special Requirements (C of C required)	Violations of any of the requirements of this provision will be cause for rejection of the goods at Buyer's sole discretion. <ul style="list-style-type: none">• MERCURY EXCLUSION. Mercury or mercury containing compounds shall not be intentionally added or come in direct contact with hardware or supplies furnished under this Order.• POLYCHLORINATED BIPHENYLS PROHIBITION. Seller shall not employ equipment or use material that is known or suspected of containing polychlorinated biphenyls.• PROHIBITION OF YELLOW WRAPPINGS OR PROTECTION DEVICES. Seller shall not use yellow wrapping material or attached yellow protection devices such as caps or plugs.
QAP46	Calibration	Calibration services must be conducted by an accredited calibration laboratory. All gage calibration certificates must be supplied and shall include: Gage ID/Serial Number, description of Gage or Equipment calibrated, As Found & As Left conditions, Pass or Fail and Traceability to NIST.