

full baseline First Article Inspection report on file.

A copy of AS9102 may be obtained from the MTI Motion Purchasing Department, or the Internet at <http://www.sae.org/technical/standards/AS9102B>. Full or partial FAI is required when any of the following occur:

- 8.1.1 First time production.
- 8.1.2 A print revision changes.
- 8.1.3 A change in the design affecting, form fit or function of the part.
- 8.1.4 A change in manufacturing source(s), inspection methods, location of manufacture, tooling or materials that can potentially affect fit, form or function.
- 8.1.5 A natural or man-made event, which may adversely affect the manufacturing process.
- 8.1.6 A lapse in production for two years or as otherwise specified.

Suppliers that have not previously completed AS9102 FAIs for parts produced prior to the addition of this requirement (6/30/17) will perform a complete FAI when any of these triggering events occurs.

- 8.2 The Production Part Approval Process (PPAP) published by AIAG has been adopted by MTI Motion. PPAP is used to cover submission of information and parts that represent mass production runs, changes in material, and changes in location, on-going quality issues or anything affecting form, fit or function such as engineering change. If quantities allow, PPAP samples should be taken from a 300-piece production simulated run.
 - 8.2.1 Submit appropriate amount of parts as defined by MTI Motion.
 - 8.2.2 Submit the completed Part Submission Warrant to the correct level (1-5).
 - 8.2.3 Maintain and submit, as required, all documentation to support the Part Submission Warrant.
 - 8.2.4 Maintain the design records, CAD math data, drawings etc.
 - 8.2.5 Maintain Engineering change documentation.
 - 8.2.6 Maintain all dimensional results as called out in the design drawing.
 - 8.2.7 Maintain material performance and durability test results.
 - 8.2.8 Construct a Process Flow Diagram that accurately depicts each step in the process.
 - 8.2.9 Perform a PFMEA (Process Failure Modes and Effects Analysis) on the process flow diagram referenced in step 8.2.8.
 - 8.2.10 Develop a Control Plan to demonstrate how the product will be controlled throughout the process flow. Control Plan must align as output of the PFMEA.
 - 8.2.11 Demonstrate the capability of all processes to manufacture the product within statistical acceptability utilizing Ppk or Cpk analysis.
 - 8.2.12 Perform and maintain GR&R (Gage Repeatability and Reproducibility) studies for new or modified gages, measurement and test equipment. (Reference AIAG Measurement Systems Analysis Manual, for methods.)
 - 8.2.13 When the product is designated for Aircraft/Aerospace, the layout component of the PPAP package must include all required FAI documentation in the AS9102 format.
 - 8.2.14 A signed approved warrant from shall be received from MTI Motion prior to the shipment of any production product.

Submission Levels:
Level 1 – Submission of warrant only.
Level 2 – Submission of warrant, product samples and limited supporting data.
Level 3 – Submission of warrant, product samples and complete supporting documentation.
Level 4 – Submission of warrant, NO product samples with complete supporting documentation.
Level 5 – Completed warrant with product samples and complete supporting documentation reviewed on-site at the supplier location.

Level 3 is the default level to be utilized for all submissions unless specifically advised otherwise by MTI Motion.

- 8.3 When required by the purchase order, the supplier is expected to prepare, maintain, and follow a Control Plan, which specifies the quality planning routine for a part or family of parts. The Control Plan shall cover all stages of production, from receipt of purchased materials through packaging and shipping. The Control Plan will be subject to review by MTI Motion. The supplier-provided FMEA will be used in evaluating the Control Plan.
- 8.3.1 Control Plans must include at a minimum: proper identification of the part and operation, date issued and approved, engineering change level, frequency and quantity of pieces or process parameters to be inspected for each characteristic, the acceptance / rejection criteria, the method of inspection (type of gages, test equipment, etc.), and the reaction plan for suspect / nonconforming conditions. The reaction plan must address quarantine / segregation, purging of nonconforming material, and verification of corrective actions.
 - 8.3.2 The Control Plan must, at a minimum, address each MTI Motion / Customer Special Characteristic. The Control Plan shall also include supplier-selected characteristics or elements of the processes that impact the Special Characteristics or are critical to the process which may impact the end customer of MTI Motion.
- 8.4 The supplier's Quality System shall identify the inspection status of items produced. Inspection status may be accomplished by means of stamps, tags, move tickets, routing cards or other readily identifiable methods.
- 8.5 Where 'KEY' Characteristics are called out on a drawing, the supplier shall utilize Statistical Process Control (SPC) to control these characteristics. The Statistical Process Control Reference Manual published by the AIAG is recommended by MTI Motion suppliers as a standard approach to statistical analysis and application of basic statistical process control techniques. If the supplier determines that SPC is not acceptable, or if a process has become unstable or out of control, the alternative would be to perform 100% inspection on the noted Key Characteristics.
- 8.6 If sample inspection is utilized, sampling plans must be in accordance with ANSI C=0 (zero) defects sampling as a minimum (unless otherwise stated on the purchase order). Sample inspection that reveals a defective characteristic will require 100% screening for that characteristic.
- 8.7 Unless otherwise specified, procedures shall be implemented to ensure that eye examinations, including visual acuity and color vision, as applicable, are administered by a medically qualified / trained person to all individuals performing visual inspection, other product acceptance activities and/or M&TE calibration that require visual acuity. **This requirement shall be flowed down to all sup-tier suppliers.**
- Intervals shall not exceed one year.
 - Individuals shall be tested in at least one eye, either corrected or uncorrected.
 - Color Perception testing is required one time only. Individuals shall be capable of adequately distinguishing and differentiating colors used in the method for which certification is required, the process being performed or inspection activity.
 - Records shall be retained for each individual.

Note: Vision tests may be substituted for the options listed in the Table providing the equivalence is verified and documented by a licensed optometrist or ophthalmologist.

Individual performing ...	Shall be compliant with minimum vision requirements of
Visual inspection (i.e. calibration, non-weld, in-process, layout, dimensional)	Near vision requirements of <ul style="list-style-type: none"> • Snellen 14/18, (20/30), • or Jaeger 2
Visual Inspections on Welds	American Welding Society Standard (AWS) D17.1

Nondestructive Testing (NDT)	Aerospace Industries Association National Aerospace Standard (AIA/NAS) 410
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9.0 **NON-CONFORMING MATERIAL / CORRECTIVE ACTION**

9.1 The supplier is responsible for repairing or replacing nonconforming material to specifications in order to meet MTI Motion timing requirements. Reworked or sorted material must receive independent quality inspection before being returned to the production flow. In some cases, nonconforming material may be sorted or reworked by MTI Motion at the supplier's expense. The supplier is expected to focus quickly on containment of the problem. Costs created by nonconforming material including rework labor, overtime, freights, expedites, hiring contract agencies may be charged to the supplier.

9.2 Suppliers receiving a Supplier Corrective Action Request from MTI Motion are expected to respond within 48 hours from the time of notification with a containment plan. Written corrective actions must be submitted within 30 calendar days. An extension may be granted by MTI Motion Quality Assurance based upon the corrective action(s) required or the nature of the nonconformance. The response must detail the root cause of the deficiency as well as the action taken to correct it. Any procedural changes, documented process improvements, or Quality Manual changes should be attached to the response. Increased inspections, verbal instructions/warnings or responses that do not address items specifically as they are listed on the SCAR may be rejected.

10.0 **CERTIFICATIONS AND SUPPORTING DOCUMENTATION**

10.1 A completed Certification of Conformance form or equivalent statement on the packing slip shall accompany all shipments to MTI Motion. The certificate shall display, as a minimum, the supplier name, the manufacturer's name (where applicable), the manufacturer's physical plant location (an attached manufacturers certification showing manufacture site is permissible), purchase order number, MTI Motion part number and revision level, quantity shipped, a statement certifying that the products furnished comply with the applicable drawing and specifications, and a signature and title of an individual responsible for Quality.

10.2 In addition to the standard Certification of Conformance of Para 10.1, additional certification documents are required with each shipment as follows:

10.2.1 If the SLMTI purchase order or drawing specifies material requirements, a separate Certificate of Conformance for the material. For metallic materials, this includes the mill certification, containing chemical/physical tests, heat lot ID, and specification, and establishes a chain of custody from the contract holder to the melt source.

10.2.2 For electronic and Commercial Off the Shelf (COTS) components, an original part manufacturer certification as well as documentation identifying the name and location of all supply chain intermediaries (if any) from the part manufacturer to the direct source.

10.2.3 For special processing requirements, see Section 11.0.

10.3 Suppliers of shelf life sensitive materials shall also furnish a legible certificate with each shipment of perishable goods referencing the batch number, the material specification (including revision and amendments) stating required storage conditions and/or shelf-life expiration periods as applicable.

10.4 Failure to comply with certification requirements will result in rejection and payment delay.

10.5 The use of any method that causes the original data of documents to be obliterated and unreadable (ie, the use of correction fluids, correction tape, or write-overs) to correct, modify or otherwise alter the data on any certifications or test reports is prohibited. Corrections may be made on records providing it is clearly obvious that a correction was made and it is signed (initialed) or stamped and dated by an authorized individual.

- 10.6 If the product being supplied is serialized or date-coded, that specific information (serial numbers, date-codes) shall be listed on the Certificate of Compliance.

11.0 **SPECIAL PROCESS CERTIFICATION AND CONTROL**

- 11.1 In addition to a general Certification of Compliance (see 10.1), special process requirements shall require an additional certification that identifies the process performed (as specified on the drawing/specification). Special processes include the following: All plating processes, anodizing, passivation, NDI (liquid penetrant, x-ray, and magnetic particle) inspections, and heat treating. This Certification of Compliance shall be provided from the organization who performed the process.
- 11.2 When specified by the drawing or purchase order, special processes must be performed by sources approved by MTI Motion and/or its customer. Special process suppliers shall be NADCAP certified. Evaluation by CQI AIAG may be permitted when approved by MTI Motion.

12.0 **MEASURING AND TEST EQUIPMENT CALIBRATION**

Suppliers measuring and testing equipment calibration/verification systems shall be able to produce documentation verification that ensures an established system and records of calibration traceable to National Institute of Standards and Technology (NIST).

13.0 **HANDLING, PRESERVATION, PACKING, SHIPPING**

- 13.1 Suppliers shall assure that materials are packaged in a manner that will prevent damage, deterioration, corrosion and preclude moisture, foreign matter or contamination damage.
- 13.2 All components, subassemblies, and assemblies identified as ESD will be treated as Class 1 per ANSI/ESD S20.20. Electrostatic Discharge Sensitive components or assemblies that contain ESD sensitive components shall be packaged in approved protective packages and labeled with the ESD caution symbol. Appropriate ESD controls must be used by the supplier in every handling/storage element of their operation, from material receipt through fabricating, testing, packaging, and shipping.
- 13.3 All packaging containing bearings shall have a label which specifies lubrication type, lot code and date of lubrication.

14.0 **RECORDS**

Suppliers shall maintain Quality Inspection and traceability records of parts produced for a period of fifteen (15) years or as otherwise specified on the Purchase Order. These records must be available for review within 24 hours of a request by MTI Motion's Purchasing or Quality personnel. Prior to discarding any quality record, the supplier shall contact MTI Motion Purchasing or Quality and obtain written approval.

15.0 **CONFLICT MINERALS**

- 15.1 Suppliers shall acknowledge that MTI Motion is a public company that files reports with the U.S. Securities and Exchange Commission ("SEC") and is subject to Section 1502 of the Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010 (the "Conflict Minerals Law"). Under the Conflict Minerals Law, Buyer will be required to submit reports and disclose (a) whether any Tantalum, Tungsten, Tin or Gold (Conflict Minerals or 3TG) necessary to the functionality or production of MTI Motion's products originated from the Democratic Republic of the Congo ("DRC") or any adjoining country; and (b) if any Conflict Minerals did originate in the DRC or an adjoining country, the due diligence measures taken by Buyer to identify the source of the Conflict Minerals used in its products.
- 15.2 Suppliers shall cooperate with MTI Motion from time to time, at no additional cost to MTI Motion, in MTI Motion's performing a reasonable due diligence investigation on the origin of Conflict Minerals

contained in items delivered to MTI Motion under these purchase order requirements to enable MTI Motion to comply with its disclosure and reporting obligations under the Conflict Minerals Law.

Such due diligence may include but shall not be limited to assisting MTI Motion in conducting a “reasonable country-of-origin inquiry” on such Conflict Minerals or completing and submitting to MTI Motion such questionnaires or templates relating to the origin of Conflict Minerals contained in MTI Motion products, as MTI Motion shall request.

16.0 COUNTERFEIT MATERIAL CONTROL

The supplier shall have processes and controls to ensure no Counterfeit Material is delivered to MTI Motion. Supplier shall maintain documentation, i.e. Certificates of Manufacture, Certificates of Compliance, Independent 3rd party testing, etc, necessary to assure traceability of the parts to the Original Equipment Manufacture specified on the MTI Motion drawing. SAE AS5553 provides guidance for counterfeit prevention.

17.0 FOD CONTROL PROGRAM

Foreign Object Damage: The supplier shall develop and maintain a Foreign Object Debris/Damage (FOD) Prevention Program for manufacturing areas to prevent introduction of foreign objects into any item delivered under this purchase order using NAS412 as a guide. The supplier shall employ appropriate housekeeping practices to assure timely removal of residue/debris generated, if any, during manufacturing operations and/or normal daily tasks.

The supplier shall determine if sensitive areas that may have a high probability for introduction of foreign objects should have special emphasis controls in place appropriate for the manufacturing environment. The supplier shall determine the need for and implement FOD prevention awareness programs. When applicable, the Supplier’s FOD control program shall include controls to preclude FOD or contamination at the supplier’s sub-tier sources.

18.0 PROCESS CHANGE CONTROL

Upon approval by MTI Motion as a qualified source, through first article or first lot acceptance, the supplier shall make no changes in design, materials, process (including moving the production location), or source of major components without prior notification and approval of MTI Motion. For the purpose of this clause, a process is defined as any procedure, system or practice used during the manufacture or production of a deliverable item (i.e. machining, de-burring, heat treating, soldering, cleaning, finishing, etc.).

19.0 EMPLOYEES’ SUITABLE ENVIRONMENT AND AWARENESS

In accordance with AS9100, ensure that persons of your organization are aware of: their contribution to product or service conformity; their contribution to product safety; and the importance of ethical behavior. In addition, ensure that a suitable environment is fostered by management which can be a combination of human and physical factors, such as:

- a. Social (e.g., non-discriminatory, calm, non-confrontational)
- b. Psychological (e.g., stress-reducing, burnout prevention, emotionally protective)
- c. Physical (e.g., temperature, heat, humidity, light, airflow, hygiene, noise)

20.0 PREVENTIVE MAINTENANCE

Supplier will develop a planned preventive maintenance program for Critical tooling and equipment utilized to affect form, fit, function, quality of subsequent manufacturing operations or items affecting safety or Government regulations. Records of maintenance performed will be retained and readily available.

21.0 CONTINUOUS IMPROVEMENT

Supplier will develop a continuous improvement plan to include:

- a. Comprehensive plan as it relates to quality, service and price
- b. Develop specific action plans to address the largest variation
- c. Establish product characteristics and process parameter metrics
- d. Optimize the target value and conduct activities that reduce the variation around that value

Examples of continuous improvement may be reducing unscheduled machine down-time, machine set-up time, cycle time, scrap and rework, customer complaints, or key dimensional variation. (Improving Cpk's)

22.0 BUSINESS CONTINUITY

The Supplier should have a business continuity plan which would allow for the safeguarding, storage and recovery of engineering drawings, electronic media and production tooling in the event of damage or loss. This plan should also include contingency plans to fulfill XYZ requirements in the event of significant utility interruptions, labor shortages, equipment failure and field returns.

23.0 Government Clauses (Incorporation of FAR and DFARS Clauses)

If this Order shows on its face that it is placed in support of a U.S. Government funded prime contract or subcontract, or if MTI Motion otherwise notifies the Supplier that this Order is placed under a U.S. Government prime contract or subcontract, the following clauses of the Code of Federal Regulations (CFR), the Federal Acquisition Regulations (FAR), and the Department of Defense Federal Acquisition Regulation Supplement (DFARS) apply and are incorporated herein by reference with the same force and effect as if set forth below in full text. These clauses apply to all firm-fixed price (FP), cost reimbursable (CR), and time & material/labor hour (TM/LH) purchase orders, as appropriate.

Full text versions of these clauses can be made available upon Supplier's request to the MTI Motion authorized representative. Additionally, full text versions of these clauses are available from the U.S. Government in searchable form on the Internet. The sites to be contacted are:

- (1) For the CFR - <http://www.ecfr.gov/cgi-bin/ECFR?page=browse>
- (2) For the FAR - <https://www.acquisition.gov/?q=browsefar>
- (3) For the DFARS - <http://www.acq.osd.mil/dpap/dars/dfarspgi/current/index.html>

Except as noted below, the following changes to the CFR, FAR and DFARS clauses are made for incorporation of these clauses into this Order:

“Contractor” or “prime contractor” shall mean “Supplier.” “Government” shall mean “MTI Motion.”

“Contracting Officer” shall mean “MTI Motion” Supply Chain/Purchasing Representative.”

“Contract” or “Schedule” shall mean this “Order.”

Supplier agrees to flow-down, as required, all applicable CFR, FAR and DFARS clauses to its lower-tier suppliers. Supplier further agrees that all notifications and other communications required by these clauses shall be made through MTI Motion Supply Chain/Purchasing Representative, unless this Order specifically provides otherwise. During the performance of this Order, MTI Motion shall reserve the right at any time to change/amend/update any clause in this document.

FAR/DFARS Reference	Title/Applicability
252.204-7012	Safeguarding Covered Defense Information and Cyber Incident Reporting
252.204-7019	Notice of NIST SP 800-171 Assessment Requirements
252.207-7020	NIST SP 800-171 DoD Requirements

24.0 Registration, Evaluation, Authorization, and Restriction of Chemical Substances

In connection with the environmental requirements related to the European Union's Restriction of Hazardous Substances (RoHS)(2011/65/EU) Directive including EU 2015/863 and Registration, Evaluation, Authorization, and Restriction of Chemical Substances (REACH) (EC 1907/2006) Regulation, we are pursuing several initiatives to ensure full compliance.

Starting January 2021, ECHA requires that all products sold in the European Union which contain an SVHC be entered into their SCIP database. In the event your product contains an SVHC, additional data attributes will be requested.

Additionally, we are required to perform due diligence to ensure that our products do not contain metals from the Democratic Republic of the Congo or surrounding areas or any additional Conflict Affected High Risk Areas that contribute to armed conflict.

Given the total impact of these environmental requirements on our business, we have implemented a data collection and reporting process for gathering environmental compliance information for all our components and products. We have hired Source Intelligence (SI) to facilitate this data collection.

SI will contact you to request certain information about the products and components that we buy from you. We appreciate your cooperation in supplying Source Intelligence with the requested data. This data is crucial for us to achieve compliance with the aforementioned legislation and will be used by us for that purpose.

Specifically, Source Intelligence will be sending requests and templates for the following:

- Certificate of EU RoHS Compliance
 - o RoHS compliance status of the part number listed in relation to the 10 restricted substances
 - o RoHS exemptions required for compliance
- REACH Declaration to the current SVHC candidate list
- REACH SVHC SCIP Data
 - o Name of SVHC contained
 - o Name of article containing the SVHC
 - o Article Category
 - o Material Classification Code for material containing the SVHC
 - o Concentration range of the SVHC
 - o Safe use information for the product
- Conflict Mineral Reporting Template – CMRT- for the current year
- California Proposition 65 Declaration

25.0 Human Rights Assessment

This is to inform you that we are taking steps to address several worldwide regulations, including the US Uyghur Forced Labor Prevention Act (UFLPA), Australia Modern Slavery Act, and the French Corporate Duty of Vigilance Law. These regulations require companies to implement a Human Rights Due Diligence process for their supply chain to verify that forced labor, child labor, modern slavery, human trafficking, etc. are not present in the manufacturing of their products. This includes mapping the supply chain down to the material source and evaluating supplier policies and practices related to human rights protection.

To address some of the requirements of the US Customs and Border Patrol and other regulatory agencies, MTI Motion has partnered with Source Intelligence (SI) to facilitate the data collection as part of their Human Rights Due Diligence program. Therefore, it is necessary to complete the Human Rights Assessment (HRA), attach supporting documentation and provide a list of your direct suppliers, including any service and logistics suppliers for which you issue purchase orders and those with whom you have direct contracts. Please perform the registration process (if you have not done so already) and complete the short assessment within 4 weeks of this notification.

Please follow these steps to register and provide data:

1. Add MTI-Motion@sourceintel.com and no-reply@sourceintel.com to your safe sender list
2. An email will be sent to you from MTI-Motion@sourceintel.com
3. Click the registration link in the email *Note: If you have previously registered, please use your existing username and password at <https://app.sourceintelligence.com/quantum>
4. Follow the instructions to complete the Human Rights Assessment. You can find additional training and information on human rights at <https://www.sourceintelligence.com/human-rights-assessment/>

If you have any questions for Source Intelligence regarding their platform or you are not the correct point of contact to reply to this supply chain compliance request, you may contact them at MTI-Motion@sourceintel.com



Approvals		
Title	Signature	Date
Quality Manager (Pleasant Prairie)		
Quality Manager (Davall)		
Quality Manager (Matamoros)		
Quality Director		

CHANGE MATRIX		
REVISION	DATE	CHANGE
A	2/22/2013	Section 4.3 Changed must to should. Page 7. Section 6, Level 7, Added "initial" PPAP definition. Page 10
B	5/28/2013	Section 6 PPAP. Removed submission levels 6 & 7 from PPAP submission warrant to be consistent with AIG PPAP manual submission requirements. Added Aerospace FAI requirements to the PPAP process. Updated Section 12
C	10/25/2013	Section 12. Changed "may" to "will" for action to be taken against suppliers falling below expectation. Add not to rank order suppliers and taken action against the top 3 worst performing.
D	4/21/2014	Changed Section 12 from supplier classification to supplier improvement initiative. Introduced PCAR Process (Performance Corrective Action Report).
E	11/1/2014	1. Include compliance to standards 2. Section 2. Manufacturing Capabilities, Supplier Responsibility, add "4. Supplier must complete feasibility agreement with a final quotation of a part." and add Production Feasibility Agreement form. 3. Section 5. Change control, supplier responsibility, add "4. Supplier must use Supplier Change Request form to request a change. Supplier shall not make any change until Supplier Change Request is approved by HS." and add Supplier Change Request form. 4. Section 6. PPAP (Production Part Approval Process), Supplier Responsibility, add "submit the PPAP package to Supplier Quality by email only." Add reference to counterfeit part prevent and lead free procedures.
F	10/31/2016	Updated Logo and verbiage
G	7/24/2017	Added new delivery expectations consistent with MTI. 9. Delivery
H	3/31/2018	Clarified and updated supplier requirements
J	8/28/2019	Complete Re-write
K	9/28/2020	Updated section 5.4 to clarify MTI approval
L	1/06/2021	Added section 23.0 Government Clauses
M	2/6/2023	Added sections 24.0 & 25.0, Logo and Company Name Updated, 8.1 Updated

MTI Motion

Supplier Quality Requirements Manual (SQRM)

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Printed Name

Signature

Company Name

Position

Signature is an acknowledgement that the Supplier has received a Supplier Quality Requirements Manual, was communicated of the requirements, read and understood the expectations, and accepted the responsibility.