

MAGNA GLOBAL SUPPLY CHAIN REQUIREMENTS

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As part of an increasingly competitive and demanding industry, Magna has a diversified, global supply chain that supports our global operations and, ultimately, our OEM Customers. Magna has implemented many changes over the past few years, and we continue to evolve, in our efforts to maintain our position as a world-class design, engineering and manufacturing company.

We recognize that our supply chain is an integral part of what we do, and we have committed to continue our efforts at standardizing many of our supply chain management processes and systems. As part of that effort, this Global Supply Chain Requirements Manual forms the basis of our business relationship with our Suppliers. In addition to defining manufacturing, logistics and quality requirements, this Manual also details necessary environmental, compliance and other sustainability requirements that have become critical to the industry.

This Global Supply Chain Requirements Manual defines Magna's requirements on behalf of all global manufacturing locations. There may be additional, customer/Division specific requirements that are also required at a Division level, which may be more detailed or stringent than requirements defined in the Global Supply Chain Requirements, and Suppliers are expected to comply with both sets of requirements. Every attempt has been made to ensure that requirements in this Manual and requirements defined by a Division level document, are not in conflict. If such conflict does in fact occur, you are expected to contact your local Division representative who will work to ensure resolution of that conflict.

Our Suppliers are important to Magna, and we will continue to strive to ensure a relationship of mutual respect and benefit, and we thank you for your support.

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1. INTRODUCTION

1.1 THE MAGNA -SUPPLIER **RELATIONSHIP**

Magna is committed to maintaining its position as a global leader within the automotive sector and we recognize the integral role that each supplier to Magna has in maintaining our position of excellence in innovation, technology, cost, quality and delivery.

Magna is committed to a zero PPM strategy and expects all Suppliers to support this strategy and manage their own operations, similarly. Our intent is to establish strategic, long-term relationships with our Suppliers, and it is incumbent on each supplier to maintain a position of cost leadership while demonstrating a commitment to sustained quality, highest levels of service and a strong focus on continuous improvement.

We will endeavour to make every effort to manage our supplier relationships with the highest degree of integrity and professionalism, and we will ensure that our decisions are based upon optimization of value to Magna and its stakeholders. We will not allow any undue influence or inappropriate activity to compromise those decisions.

This Supplier Manual outlines the fundamental requirements for all Suppliers to Magna International's global operations. The Quality Systems requirements have been aligned across all our global manufacturing sites, to the greatest extent possible. In addition to the requirements defined in this document, there may be additional Division standards applicable to the Magna operating Group(s) with which you conduct business. The quality and delivery requirements defined herein are to be considered an addendur to the Purchase Order and Terms & Conditions issued to all Suppliers and do not replace or alter the terms and conditions covered by these purchasing documents, the Statement of Work (SOW) or warranty agreements. Suppliers are als expected to comply with any terms and condition imposed on Magna, by the customer to whom the final products are ultimately being shipped.

This includes compliance with any specific forms or documents specified by any Customer of Magna. Suppliers to Magna are also expected to manage their sub-tier Suppliers of products and services to ensure compliance to the requirement defined within this manual, Magna Purchasing Terms & Conditions, Magna's Supplier Code of Conduct and Ethics, the latest automotive industri standards and any additional Customer or Divisio specific requirements.

1.2 COMMUNICATION -NOTIFICATION OF CHANGES

It is critical that the relationship between Magna and our Suppliers be premised on open, effective and proactive communication. The occurrence of Suppliers must be proactive in their communication non-conforming product, unauthorized changes or with their Magna customers (Reference Section 4.4) any related supply chain issues, present a risk to and all changes must be communicated to Magna, both Magna and to Magna's customer(s), when not prior to proceeding with those changes. Failure to communicated and managed effectively. These risks notify Magna of potential issues or changes will result also manifest themselves at the sub-tier Suppliers in internal elevation, as appropriate, and may result and sub-contractors that comprise the overall supply in notification of the issue to Magna's customers. If chain. In order to manage these risks most effectively, necessary, a supplier's ISO and/or IATF Registrar will all Suppliers must communicate as early as possible, be contacted and asked to conduct any necessary the following: investigations or assessments. In the absence of 1. Any pending or potential issue which the proactive communication of potential changes, supplier has identified. any costs incurred by Magna as a result of late

The expectations, requirements and standards defined within this manual are applicable to all Suppliers providing materials, products and services to any Magna manufacturing facility. This includes Suppliers of direct materials and, as appropriate, indirect materials, packaging materials and services (including containment, sorting and calibration services) with potential impact on any product characteristics affecting Magna's Customer requirements. These requirements also apply, in whole, to any supplier that is directed to Magna, by any OE Customer. The requirements as detailed in this manual define basic requirements and are supplemental to requirements as defined within the latest ISO 9001 and IATF 16949 Standards, and any specific requirements as communicated by your procuring division. The latest version of this manual will be posted on the Magna website supplier portal (https://www.magna.com/company/suppliers) or the ERFX portal (https://ERFX.magna.com), and the Magna Quality Platform – QPF (https://qpf. magna.com/). Suppliers must review any one of these sites on a regular basis to ensure they have the most recent version available. Suppliers must have access to ERFX (https://ERFX.magna.com) and to QPF (https://gpf.magna.com/).

	2.	All proposed material and/or process changes,
		including any change in process or product
		safety or critical characteristics.
m	3.	All proposed changes, including:
		 Manufacturing location change
		 Tooling capacity change
		 Re-commissioning of tooling that has been
		inactive for one year
SO		 Tooling refurbishment/replacement
ns		 Proposed use of new manufacturing
ne		equipment
		 Tooling transfer (re-source)
	4.	Any potential manufacturing/quality issues,
5		including any change in Quality Management
		Systems certification status (expiry, suspension,
)		withdrawal or revocation).
	5.	Any potential supply and/or capacity issues.
nts	6.	Changes to sub-Suppliers of raw material,
		components or services.
	7.	Information Technology (IT) or supporting system
try		changes that might impact production or
on		shipment of product to Magna.
	8.	Organizational changes with the potential for
		impact on manufacture or supply of product to
		Magna.
	9.	Changes to ownership structure.
	Sup	ppliers will support all tests, validations, approvals
	and	submissions required as a result of product or

process changes, as directed by Magna. Suppliers cannot charge for samples or testing resulting from supplier related or requested changes, unless approved by Magna.

notification or insufficient lead time, from the supplier, will be the responsibility of the supplier and will be charged to the supplier, as appropriate. Continued non-compliance may lead to loss of business.

1.3 CONTINUITY OF SUPPLY

Suppliers are required to have well defined business contingency plans in place to ensure continuity of supply in the event of disruption to their operations and/or supply of materials, as a result of manmade events, natural disasters, utility or labour disruptions, equipment or logistics failures or interruptions, or disruptions/attacks on information technology systems. These contingency plans shall be reviewed on a regular basis. Suppliers shall immediately notify all Magna Divisions to which they • Protection of Magna Information and ship product, the moment they become aware of any potential supply disruption.

Each Supplier to Magna shall identify an individual from the Supplier's manufacturing location, with sufficient authority to assume responsibility for dealing with any product quality and/or delivery related issues that may impact Magna or Magna's Customers. The identified contact needs to be available at any time such issues arise.

Contact information shall be made available to the Magna Division being supplied, or uploaded in the appropriate database(s), as directed by Magna.

1.4 CORPORATE SOCIAL RESPONSIBILITY/ SUSTAINABILITY

Magna is committed to being a responsible corporate citizen. We expect our Suppliers to adhere to the elements of Magna's policies

and requirements covering corporate social responsibility/sustainability,

LEGAL COMPLIANCE & ETHICAL BEHAVIOUR

We expect that our Suppliers will always act with integrity by obeying the letter and spirit of laws, regulations, standards and Magna policies that apply to them, regardless of where they do business, including:

- Antitrust and Competition Laws
- Anti-bribery laws
- Gifts & Entertainment limits or prohibitions
- Sanctions and Export Control Laws
- Responsible sourcing, including prohibitions on sourcing materials from areas of conflict
- Respect for Human Rights
- Diversity and Inclusion
- Health & Safety requirements
- Environmental Sustainability
- Preventions of Conflicts of Interest
- Intellectual Property or, if applicable, that of Magna's OEM customers

Suppliers must abide by the full requirements of the Magna Supplier Code of Conduct and Ethics and should, in turn, also require that their Suppliers abide by the same requirements (https://www. magna.com/company/Suppliers).

ENVIRONMENTAL RESPONSIBILITY

Magna's objective is to be an industry leader in health, safety and environmental practices. We are committed to environmental responsibility and have many different programs designed to protect our environment and manage critical resources so as to sustain and replenish these resources for future generations. We expect our Suppliers to show the same dedication and commitment to the environment and recommend certification to ISO 14001 environmental standards, ISO 14001 certification is currently monitored, and Suppliers not currently holding environmental certification are encouraged to develop a plan of execution

having the objective of achieving certification status. In support of managing impact on the environment, Suppliers should be monitoring and optimizing greenhouse gas emissions, water consumption and emissions of volatile organic compounds (VOCs), particulate matter and ozone depleting substances.

In support of sustainability initiatives we encourage our Suppliers to effectively manage, monitor and optimize energy consumption through an effective energy management program. We encourage Suppliers to consider using ISO 50001 as a guideline to an effective energy management standard, however certification is not mandatory at this time, unless as directed by the jurisdiction within which operations exist.

Magna, and its supply base, must meet all requirements of End-of-Life Vehicle (ELV), require Magna to disclose the origin of various International Material Data System (IMDS), raw materials used in its products. Given the Registration, Evaluation, Authorization and breadth and complexity of Magna's supply chain, Restriction of Chemicals (REACH) and China we necessarily rely on our Suppliers for accurate Automotive Material Data System (CAMDS) information about products supplied to Magna. directives. As required, Suppliers shall comply with applicable standards on the classification, In order to accurately and completely meet packaging and labeling of hazardous substances disclosure requirements related to raw materials and mixtures, including national implementations in our products, Magna expects and requires its of the UN Globally Harmonized System (GHS), Suppliers to conduct appropriate due diligence to such as Regulation (EC) No 1272/2008 on enable the Supplier to provide information about the classification, labeling and packaging of product origin. Where necessary, this will require substances and mixtures (CLP Regulation) and Suppliers to obtain such information from its own the Workplace Hazardous Material Information Suppliers as well. System (WHMIS). For all parts supplied to Magna, CONFLICT MINERALS including new or modified parts and spare parts, compliance to current legal requirements must be ensured (e. g. REACH, GADSL). Under legislation which came into effect in

Correct and complete Material Data Sheets (MDS), that comply with Conflict Minerals Guidelines, must be submitted in the IMDS (International Material Data System) and/ or CAMDS (China Automotive Material Data System), to prove compliance. For parts not subject to PPAP, MDS must be submitted in IMDS, upon request.

Magna expects our Suppliers and their sub-tier Suppliers, as appropriate, to register and comply with all applicable reporting requirements that are applicable to their products and processes.

RESPONSIBLE SOURCING OF RAW MATERIALS

The automotive parts we produce involve the use of several minerals and other raw materials. We are committed to ensuring that the materials used in our parts have been sourced responsibly - that is, they do not originate from conflict-affected areas. Responsible sourcing of raw materials is key to ensuring that Magna and its Suppliers are able to meet its commitments to respect human rights. as reflected in our Code of Conduct and Supplier Code of Conduct, respectively.

A growing number of regulations, emerging industry best practices, and OEM customers

2012, manufacturers, including Magna, who file certain reports with the U.S. Securities and Exchange Commission (SEC) must disclose whether products they manufacture, or contract to manufacture, contain conflict minerals that come from sources that support or fund inhumane treatment in the region of the Democratic Republic of the Congo or an adjoining country.

Currently, SEC requirements list Tin, Tantalum, Tungsten and Gold (collectively, 3TG) as Conflict Minerals. Other minerals may be added in the future.

Other jurisdictions, including the EU, are in the process of implementing or considering similar Conflict Minerals regulations. To ensure compliance with the SEC requirements, and any requirements implemented by other jurisdictions in the future, Magna must request information regarding the use of conflict minerals, from any appropriate Suppliers. Any Suppliers contacted by Magna, are required to support Magna by accurately providing all requested data and reports in a timely manner.

Additional information on conflict minerals reporting can be found by clicking on either of these two links: http://www.aiag.org http://www.conflict-minerals.com. Magna's Policy Statement on Conflict Minerals can be found at: https://www.magna.com/company/Suppliers

REPORTING OF OTHER RAW MATERIALS

In addition to Conflict Minerals disclosure requirements above, heightened industry and customer focus on responsible sourcing has increased demand for transparency into the origins of other raw materials used in automotive products. Currently, disclosure is being sought for a number of other raw materials including: Cobalt, Mica and Rubber. Disclosure regarding additional raw materials may be requested or required in the future. It is our expectations that such information will increasingly become a prerequisite for quotation by OEM customers, and Magna expects its Suppliers will conduct similar due diligence with respect to additional raw materials as it requires for 3TG.

COUNTERFEIT PRODUCT

Suppliers must ensure that there is no risk of counterfeit product being shipped to Magna.

Counterfeit product is defined as items that are, or contain, unlawful or unauthorized reproductions, substitutions or alterations that have been knowingly mismarked, misidentified or otherwise misrepresented to be an original manufacturer's part. Suppliers must have strict procurement policies in place to ensure traceability for all items incorporated into their product.

2. LEADERSHIP & THE ORGANIZATION

2.1 SUPPLIER QUALIFICATIONS

All direct material Suppliers must have a valid DUNS number as issued by Dun & Bradstreet and, as applicable by region, a valid VAT or HST number. DUNS numbers are validated by Magna, and misrepresentation could disqualify you from Magna business. Suppliers of indirect materials and services may also require a DUNS number, as directed by your procuring Division.

Any Suppliers shipping to any Magna group must be registered in both ERFX (https://ERFX.magna. com) and QPF (https://qpf.magna.com/). Suppliers registering in these databases must complete all information fields profiling applicable business systems, commodity capabilities and identifying key contact personnel. When registering in ERFX, Suppliers will be required to register one Quality contact, one Commercial contact and one Financial contact, at minimum. If a Supplier has multiple manufacturing sites with applicable unique DUNS identification, each manufacturing DUNS site is required to register in the appropriate database. Suppliers are required to maintain information in the database to ensure it remains current. At a minimum, data must be reviewed and, if necessary, updated at least annually.

Maintaining current information is critical as these global databases are accessible to all Magna buyers and quality personnel, worldwide. The ERFX and QPF platforms are also used during

the supplier assessment and supplier sourcing processes. Key performance metrics and Supplier ratings are also communicated via these databases.

Suppliers to Magna must also meet key operational, financial and quality criteria, which combined determine a supplier's status. These metrics are reviewed on a regular basis and assist in development of Magna's overall purchasing strategies, while at the same time driving Magna's Supplier development processes.

2.2 CERTIFICATIONS

A Supplier's top management shall demonstrate leadership and commitment to their quality management system, and they are ultimately accountable for the overall effectiveness of that system. Top management is responsible to ensure that risk-based thinking is evident and effective in all aspects of a Supplier's management system. To ensure this, management's responsibilities should include:

- Conducting contingency planning reviews
- Identify and support process owners
- Support and participate in the escalation process related to all safety relevant products and processes
- Ensure achievement of customer quality targets and performance requirements
- Implement corporate responsibility initiatives
- dealing with anti-bribery, code of conduct and ethics and sustainability initiatives (including Human Rights, Health & Safety and Environmental sustainability)

Magna's goal is for all Suppliers of materials and services, producing or affecting direct production material, to become certified to IATF 16949. At minimum, all Suppliers of direct production material to Magna, must demonstrate conformity to the latest IATF 16949 Standard, and to other standards that might be directed by the procuring Division(s) including, but not limited to VDA, ISO 17025, ISO 45001, ISO/IEC 27001, TISAX/ TPISR. ISO 26262 and ISO 15504-5 Automotive SPICE, latest revision of IPC-A-610, latest revision of DIN EN 61430 and ANSI/ESD S20.20. Suppliers who are not certified to IATF 16949 must, as a minimum, be certified to the latest ISO 9001 standard and comply with the "Minimum" Automotive Quality Management System Requirements for Sub-Tier Suppliers" (Magna MAQMSR – available at https://qpf.magna.com/).

Magna also encourages our Suppliers to work towards certification to ISO 45001 and ISO 14001. Suppliers who are only certified to ISO 9001 may be subject to an annual management system audit, by a gualified Magna or 3rd party auditor. At a minimum, Suppliers who are not IATF certified, will be required to complete an annual MAQMSR self-audit, available in the Audit Module in Magna's QPF system (https://qpf.magna.com). Should any existing certification expire, be revoked, or be placed in suspension or probation, the Supplier must immediately contact every Magna Division to which the Supplier ships product, notifying them of the change in certification status. Any suspension in certification status must be reported to all applicable Magna Divisions within 5 working days.

Suppliers shall also maintain all required CQI Assessments, as defined by their processes (Ref. http://www.aiag.org) and all applicable FMVSS Standards, including but not limited to FMVSS 302 (Flammability reporting) requirements, in support of applicable OE Customer-specific requirements (Ref. http://www.iatfglobaloversight.org/). CQI Assessments need to be renewed on an annual basis, as determined by the latest date of completion. Suppliers shall nominate a product

safety representative for each applicable manufacturing location.

Suppliers shall establish and maintain a documented process to ensure identification of training needs and documentation showing achieved competence levels for all personnel performing activities affecting conformity to product and process requirements. This shall include documented verification of competence for personnel conducting internal audits, including Quality Management System audits and applicable CQI assessments.

In addition to direct material Suppliers the scope of these requirements applies to Suppliers of subassembly, sequencing, sorting and rework (either on-site or at a remote location) and services. Suppliers are expected to maintain the same level of quality and manufacturing controls, for the production of service parts and assemblies (i.e. for the full life of the program). This shall include any service requirements transferred to any alternate site, location or organization. Suppliers of service parts, components or assemblies must comply with the AIAG Service Parts Production Approval Process (Service PPAP).

Suppliers shall post, and update all applicable certifications based on notifications received from the ERFX system.

Failure to upload required or renewed certifications will result in a penalty to your supplier scorecard and could impact future business.

CYBER AND INFORMATION SECURITY

Suppliers must have systems and procedures in place to protect computers, servers, mobile devices, electronic systems, networks and data from any form of malicious attack.

Suppliers must have procedures in place, detailing response to any attempted or actual cyberattack. These procedures must include immediate

as detailed within this manual. Assessments or reviews may be conducted from time to time in order to ensure the on-going stability and viability of Magna's supply base. All Suppliers, including Customer-designated or Customer-directed, are expected to provide, upon reasonable notice, access to their facility as well as those of sub-tier Suppliers, as necessary. Following notification of a requested assessment, Suppliers are expected to acknowledge and respond to such request, within

notification to Magna, for any potential impact to Magna data or business. With the ever-increasing dependence on electronic systems and communications, and in recognition of the ever-increasing threats to information protection and security, all Suppliers are encouraged to become certified to ISO/IEC 27000.

Magna is working to be a leader in the area of 30 days. All appropriate measures will be taken to cyber/information security, and it is important protect confidentiality of operational and financial that all identified confidential information such information. as, but not limited to, specifications, design and engineering data and other critical information, is Assessment results are intended for verification managed and maintained in a secure environment.

TISAX (Trusted Information Security Assessment Exchange) (www.tisax.org) and TPISR (Third Party Information Security Requirements) (https://www. aiag.org/supply-chain-management/cybersecurity) define industry standards for information security and establish assessment requirements to ensure globally harmonized levels of information security.

As determined by the nature and need for protection of information and data, Suppliers shall be able to demonstrate adequate safeguards and appropriate levels of information security. If directed by Magna's OE Customer, certification to TISAX or TPISR may be required. Specific cyber security requirements will be directed by your procuring Division.

2.3 SUPPLIER ASSESSMENTS

Magna reserves the right to review and assess a Supplier's financial, operational, information and IT security, quality, environmental and Health & Safety systems, for the purposes of validating compliance to standards established by applicable ISO, IATF, VDA 6.3 Standards, OE Customer Specific Requirements or requirements

of applicable ISO, IATF, VDA and applicable Customer Specific Requirements and in no way reduce or negate responsibility to meet specific regulatory, health and safety or other legal requirements applicable to the Supplier.

3. OPERATION – DESIGN & DEVELOPMENT PLANNING

3.1 DEFINING THE SCOPE

Magna requires Suppliers to complete all advance product planning and submission in full accordance with the AIAG Advance Product Quality Planning and Control Plan manual. Unless otherwise directed and approved by your procuring Magna Division(s), all PPAP submissions shall be as per Level 3 requirements, at minimum. As determined by Magna's customer and upon request by Magna, Suppliers must additionally meet submission requirements as per the current version of VDA2.

Suppliers shall ensure a multi-disciplinary approach is used throughout the product life cycle, and most especially through the design and development planning process. Suppliers shall conduct all necessary and prescribed activities to ensure clarity of all customer and Group-specific expectations as defined within Purchase Orders, Statement of Work etc. This includes activities and reporting related to design, testing, verification and/or validation and product conformance. Suppliers shall conduct and document detailed feasibility reviews to ensure all technical, manufacturing, performance, specification, certification (homologation) and timing requirements can be supported. Suppliers shall submit such feasibility reviews to Magna, upon request. In cases where product certification (homologation) is required, the Supplier is responsible for ensuring completion of all homologation specifications and requirements.

Responsibilities shall be mutually agreed upon prior to the start of any certification activity. Suppliers will ensure that resources are available and able to communicate effectively, to ensure successful completion of all requirements to meet defined program timing. It is also the responsibility of Suppliers to ensure any sub-tier Suppliers for which they are responsible, also have sufficient resources assigned.

Suppliers will develop timing and progress charts, in a format as defined by the procuring Magna Division(s) and will maintain and review timelines on a regular basis.

The Supplier shall have a documented sourcing process, for all sub-tier Suppliers affecting customer requirements. The sourcing process shall include a risk analysis that takes into consideration any available past performance data, overall risk analysis (commodity, geography, financial stability, technology, supply interruption, manufacturing capability, etc.) of sub-tier Suppliers. The risk analysis shall also include an evaluation of the sub-tier Supplier's Quality Management System. Suppliers shall have similar requirements, as defined in this document, in place for all sub-tier Suppliers. Upon request from Magna, Suppliers shall provide any relevant information impacting upon product compliance or performance, including full transparency through the applicable sub-tier supply chain.

As defined specifically by the Magna group or Division involved, Suppliers must have the ability to securely communicate CAD data, as required. The Supplier shall have adequate safeguards in place to prevent any improper use or communication of this data. Suppliers are expected to use all appropriate tools in the product and process planning phase including, but not limited to:

- Geometric dimensioning & tolerancing (GD&T)
- Design for manufacturing & assembly (DFMA)
- Design of experiments (DOE)
 - Simulation & Modelling
 - Failure Modes & Effects (FMEA)
 - Finite Element Analysis (FEA)

The Supplier's scope of planning will also ensure that all capital and tooling budgets necessary to support the program, are approved and in place in time to meet timing requirements.

3.2 PLANNING & DEFINITION OF REQUIREMENTS

As part of their risk analysis, suppliers will work with the appropriate Magna plant(s) to ensure definition of key program deliverables, including at minimum:

- Definition of all customer expectations and government or legislative requirements (e.g. FMVSS) related to product development and approval, as well as serial launch and production. Customer requirements shall include all requirements of the applicable Magna plant(s) as well as all final Customer and compliance expectations and requirements.
- Review of past warranty or field return issues for any similar product design and/or application. Wherever possible, every attempt to benchmark competitor products shall be made. The warranty analysis shall include all sub-tier suppliers, where appropriate.

- Historical quality data on previous designs or revisions of the current part, or on similar parts and manufacturing processes, shall be reviewed. Problem reports and corrective actions, rework and scrap shall be reviewed to ensure inclusion of adequate controls to prevent recurrence of previous nonconformities.
- Any campaign prevention data, or government recall or technical service bulletin data shall be reviewed, if available.

Suppliers shall work closely with Magna to ensure all processes are controlled adequately so as to prevent the manufacture and transfer of defects. Process controls must be sufficient so as to control failure modes identified through the Process Failure Modes Effects Analysis (PFMEA). All related sub-tier documentation shall be available for review, by Magna, upon request. Special attention shall be given to all Customer attach or interface points on the final product and to critical processes such as heat treating, plating , coating, soldering, welding and appearance items.

3.3 PRODUCT DESIGN & DEVELOPMENT

Suppliers with design responsibility must receive Magna approval of all product design, test and validation specifications, including CAD specifications and transfer requirements. Suppliers with design responsibility shall ensure all personnel with design responsibility are competent in all applicable tools and techniques, as identified by the supplier. All deviations must be approved by Magna, in writing, in advance of implementation. Supplier requests for deviations and engineering approvals shall be documented and controlled as per the requirements and documents of the procuring plant(s). Suppliers with design responsibility must complete all appropriate Design Failure Modes Effects Analysis (DFMEA), in compliance with latest AIAG standards and have them available for review and Suppliers with design responsibility must receive Magna approval of all product design, test and validation specifications, including CAD specifications and transfer requirements. Suppliers with design responsibility shall ensure all personnel with design responsibility are competent in all applicable tools and techniques, as identified by the Supplier. All deviations must be approved by Magna, in writing, in advance of implementation. Supplier requests for deviations and engineering approvals shall be documented and controlled as per the requirements and documents of the procuring Division(s).

Suppliers with design responsibility must complete all appropriate Design Failure Modes Effects Analysis (DFMEA), in compliance with latest AIAG standards and have them available for review and approval by Magna. The supplier and Magna will establish performance approval expectations for each phase including Engineering Validation (EV), Design Validation (DV) and Production Validation (PV) as defined by the procuring Division(s).

Data and results from EV, DV and PV testing shall be used in the design and construction of test and inspection equipment that will later control the manufacturing process.

3.4 TOOLING, GAUGES & TEST FIXTURES

Tooling design and build is generally the responsibility of the supplier, however many Magna groups have developed detailed Tooling Standards to ensure suppliers manufacture tools that will provide high quality parts throughout the life of the tooling. These Tooling Standards will be communicated to you via the procuring plant, if necessary. Suppliers are responsible for the maintenance of all tooling, testing and inspection equipment. Customer owned tooling, gauges and test fixtures must be identified as prescribed by the customer, including identification with appropriate asset tags, or similar identification. Final payment of tooling will be contingent upon verification of proper identification and completion of PPAP as defined by AIAG PPAP or VDA2 Level 3 requirements. PPAP approval will not be signed off without completion and signing of Magna approved bailment documentation (including bailment receipts incorporating pictures of tooling, gauges and test fixtures, and associated tagging or identification) reflecting the rights of Magna and its customer in goods, including tooling, which are placed in supplier's care and custody. At any time following notification to the supplier, Magna reserves the right to complete an onsite inspection of tooling owned by any Magna customer directly, or by Magna Payment terms may differ within various Magna groups, and suppliers need to make certain that they reference any applicable tooling purchase order(s) for actual payment schedule.

3.5 PROCESS DESIGN & DEVELOPMENT

As part of the advance planning process, Suppliers must design and develop a manufacturing process that will meet quoted production volumes and all quality requirements as approved by Magna. The Supplier shall use a multi-disciplinary approach for risk identification and mitigation in developing and improving plant, facility and equipment plans. Quality planning documentation such as Failure Modes Effects Analysis (FMEA), Process Flow Diagram (PFD) and Process Control Plan (PCP) must be developed, reviewed and approved by Magna prior to production approval and launch. When a FMEA has a severity or failure mode of 9 or 10, or as defined by any unique requirements of a Magna customer, the risk must be addressed through design action/controls or process prevention and detection actions, regardless of the Risk Priority Number (RPN). Suppliers are expected to have a strong focus on prevention, as opposed to detection, and potential failure modes identified through the Advance Quality Planning process must have appropriate errorproofing designed into the manufacturing process to ensure capture and containment of product non-conformances.

Suppliers must ensure that enough floor space is available to support all necessary manufacturing and testing equipment. Once production approval is received from Magna, any change to the manufacturing process must be communicated to Magna, prior to the change taking place. These changes must subsequently be approved by Magna prior to implementation.

The Supplier will also develop necessary packaging and labeling, as per the latest Automotive Industry Action Group (AIAG) or VDA guidelines, or as defined by Customer or any applicable legal requirements. In the event that specialty handling or packaging is required, the appropriate Magna Division will communicate requirements to the Supplier.

3.6 PRODUCT & PROCESS VALIDATION

Prior to final production approval, the Supplier shall validate all control documentation (FMEA, PCP, and PFD) to ensure the manufacturing process is properly detailed and all measurement and control systems are identified and implemented. The Supplier shall establish appropriate production reliability/quality goals along with disciplined corrective action processes to drive improvement through the manufacturing

process. Production Validation (PV) samples must come from the approved manufacturing process and flow, unless specifically authorized in writing by the procuring Magna Division. Final production approval will require completion of all AIAG/VDA prescribed activities including component part dimensions, material certifications (as defined by procuring Division) and all approved supporting documents, and any additional requirements that may be defined by your procuring Magna Division. Deviations required to be part of a PPAP/ EMPB submission package, must be approved in writing by the procuring Magna Division, prior to PPAP submission. Unless otherwise specified by Magna, all level 3 requirements as detailed in the AIAG PPAP Manual, or as agreed upon per VDA2, must be met. If applicable, Suppliers must meet submission requirements according to VDA2 specification agreed upon. Unless otherwise approved in writing, by Magna, production approval will be contingent upon successful completion of run-at-rate production trials at the quoted rates, including low or high threshold rates as defined by Magna, and using the procuring Division's process and form. Successful run-at-rate must meet statistical capability requirements as defined through technical, AIAG/ VDA standards, or as approved by Magna. For PPAP of new or modified parts, the Supplier must submit correct and complete Material Data Sheets (MDS) in IMDS. The PPAP Warrant/Initial Sample Inspection Report must include the version number and the ID number of the MDS approved by Magna. Failure to comply may result in a delay of PPAP approval and subsequent payment of tooling funds. For IMDS assistance, contact the IMDS Helpdesk at imds@magna.com or the contact numbers listed within the IMDS site at www.mdsystem.com. For assistance with the CAMDS system, contact the corresponding CAMDS support within the CAMDS site, at www. camds.org. Final approval will be determined by the procuring Division. Suppliers are also expected to develop and implement detailed launch readiness reviews.

All product characteristics, as identified by Magna or its OE Customer, affecting design, manufacture, assembly, fit or function (including future/subsequent processing), will be identified and communicated by the procuring Magna Division. As part of the ultimate product and process validation, Suppliers shall be required to establish, validate and maintain short and long term capability, as defined by Magna. Customer designated special characteristics, as identified by Magna or its OE Customer, affecting safety or compliance with regulations, must be validated to have acceptable short and long term capability and must be controlled through acceptable statistical process control methods. As determined by Magna's OE Customer(s) and as directed by your procuring Division, all FMEA items with a severity score of 8, or higher, must be controlled through appropriate error/mistake proofing.

As dictated by IATF 16949 Customer Specific Requirements, and unless otherwise directed by Magna, Suppliers must complete annual revalidation to the technical specifications and submission level as determined by their procuring Division(s).

In the absence of specific direction from Magna, Suppliers must complete an annual revalidation and submit the ISIR/PSW to the procuring Magna Division. Any reduction in validation requirements must support applicable OEM requirements and can only be at the direction of Magna.

Reference samples must be provided at no cost, for any product requiring surface finish or appearance requirements. These samples shall be taken from a production run made under serial production conditions. Suppliers shall provide the number of samples required by Magna and all samples must be regarded as controlled samples, along with approval signatures and expiry dates, if applicable. Samples will represent the minimal acceptance standards.

3.7 FEEDBACK & ASSESSMENT

As part of the production part approval process for all new and transfer product, Suppliers shall develop an early product launch, or Safe Launch containment plan. The process shall include regular reviews of data collected as part of the containment checks, with appropriate controls and corrective action implemented to address all instances of non-conformance. Containment plans, results and corrective action must be approved by Magna and available for review upon request.

Early product containment must remain in place until the production process is validated to be stable and approval is obtained from Magna. Unless otherwise specifically directed by your procuring Division, your early product containment plan must remain in effect for the first 2000 parts, or for the first 90 days of production (whichever is more stringent).

Suppliers shall not proceed with shipments of production material without full PPAP approval, unless an approved waiver, deviation or interim approval has been granted in writing by Magna. Suppliers can only ship the volume of parts, or for the duration of time specified by the interim approval.

4. OPERATION – CONTROL OF PRODUCTION

4.1 CONTROL OF FIXTURES & TEST EQUIPMENT

MONITORING

The Supplier must have a documented system in place to control, calibrate, and maintain the proper function and an accepted level of repeatability and reproducibility of all inspection fixtures, measuring / testing instruments and equipment. All customerowned fixtures and test/inspection equipment must be clearly identified in the manner prescribed by Magna or by Magna's customer.

UPDATING INSTRUCTIONS

Operating instructions must be readily available at every inspection station with a standard, Accreditation Forum Mutual Recognition describing the proper methodology for use in Arrangement). inspection. These instructions must include a MEASUREMENT SYSTEM ANALYSIS reference to the standard, and revision level, and be approved by appropriate personnel. Whenever Gage and fixture Measurement System there is any change to the inspection procedure Analysis (MSA) must be performed as detailed that affects the use of the standard, or when any identification information is revised, the operating in the latest released edition of the AIAG instructions must be updated to reflect the current Measurement System Analysis Manual, and status. must meet the standards of the procuring Magna Division(s).

VALIDATION

All measurement and test equipment must be calibrated annually, at a minimum, or at such greater frequency as established by the Supplier' Measurement Systems Analysis (MSA) process. The calibration record/certificate must be on file

the supplier's facility and be traceable to the actual identification information and to the appropriate standard (e.g. NIST). Calibration Services of equipment must meet the requirements of the latest released edition of ISO and/or IATF 16949 standards.

INSPECTION, MEASURING, AND TEST EQUIPMENT RECORDS

Records must include any revision information, traceable to the part revision level. External/ commercial/independent laboratory facilities used for inspection, test or calibration services by the supplier shall have a defined laboratory scope that includes the capability to perform the required inspection, test or calibration and must have evidence that the laboratory is acceptable to Magna or must be accredited to ISO/IEC 17025 or national equivalent, by an accreditation body of the ILAC MRA (International Laboratory

RECORD RETENTION

	Suppliers are expected to maintain applicable
's	retention periods as specified in IATF 16949 latest
	edition standard, unless subject to longer retention
at	periods in compliance with all applicable legal,

governmental or Customer specific requirements, pursuant to requirements communicated in writing by the procuring Magna Division(s). Records must be stored in a location and/or environment that protects against inadvertent destruction.

4.2 MONITORING OF **PRODUCT & PROCESS**

Manufacturing process control must include a continuous monitoring of product/process characteristics and of all key parameters influencing the manufacturing process. Appropriate statistical process control methods, or errorproofing, must be applied on all characteristics identified through the APQP process and as directed by your procuring Magna Division(s). Process parameters and product characteristics subject to legislative safety, environmental and/ or emissions regulations must be documented in control plans in compliance with Magna specific requirements and IATF 16949 requirements.

Suppliers must validate compliance to product and process requirements on a regular basis. This can be accomplished through layered process audits (Ref. CQI-8 LPA Guidelines), systems self-audits or similar methods of verification. Records of such audits shall be immediately available for review when requested by Magna.

4.3 NON-CONFORMANCE & CORRECTIVE ACTION

Nonconformance notices will be issued upon discovery of defective product identified as a result of, but not limited to line rejections, mislabelling, incorrect packaging, testing failures, failed inspection results, customer concerns, warranty and/or customer returns, receipt of

obsolete material or material certification or other failure modes. Nonconformance notices will also be issued for materials/logistics noncompliance issues, such as over or under shipments, missed shipments, late deliveries, packaging issues and or required documentation (e.g. ASN) noncompliance issues. The nonconformance process is typically managed through the following procedure:

- Supplier will be notified of the concern, through the QPF system. All relevant containment actions must be initiated immediately and remain in place until corrective action has been reviewed and approved by Magna. Unless otherwise specified, initial response to the nonconformance must be completed within 24 hours of notification.
- Upon notification, the Supplier shall initiate the Corrective Action Report (CAR) and any other supporting documentation as directed by the procuring Division(s). The initial CAR, detailing root cause and corrective action must be submitted to the Magna procuring Division within 5 days, unless otherwise specified by Magna. Validation and closure will be determined by the procuring division
- Suppliers shall assess the risk of any reported non-conformance for potential impact at any other Magna location, globally, that they ship to. If such risk exists, they will immediately contact all affected Magna locations
- Quality and delivery non-conformance will be reflected in monthly supplier scorecards
- Suppliers are responsible to review their monthly scorecards, on-line, in ERFX

Under-performing Suppliers may be escalated to the Magna Top Focus Supplier process. Suppliers will be expected to support any development activity that is part of this process. Costs related to the Top Focus process may be the responsibility of the Supplier, as appropriate.

Suppliers will be responsible for all validated costs for non-conformance issues, based on (but not limited to) the following criteria:

- production, at a maximum. In the event of certain facility, until certified stock arrives commodity-based material, methods such as Production line shutdown "dye lots" or steel coils will be acceptable. For approval of a traceability method exceeding 8 Any material transfer of nonconforming supplier hours, or one shift of production, the Division's product guality group must be contacted. The Supplier must ensure implementation and management of an investigation effective FIFO method of stock rotation in both the • Testing if required production and shipping process. The FIFO date used in determining stock rotation, must be the either directly or via 3rd Party sort/rework manufacturing date of the material affected.

- Division sort of Supplier product at the Magna • Finished product sort and/or scrap of material • Quality Department time for problem Any sort/rework charges incurred by Magna,
- Related transportation expenses
- Any costs incurred by Magna for disruption of Failure to comply with traceability requirements may our customers, including costs associated with lead to rejection of material and issuance of nonsorting, rework, yard holds and applicable field conforming material reports. Traceability Records actions shall be maintained and accessible for the life of the Costs associated with the disposition/return of product, including Service, plus one year.
- unapproved or unauthorized material sent by the Supplier
- Costs related to unauthorized deviations
- Costs incurred by Magna associated with customer recalls or product failures, caused by Supplier non-conformance

These costs are charged to Suppliers specifically to offset costs incurred by Magna and will vary according to the Division and specific issue involved.

TRACEABILITY

The Supplier shall follow the traceability method as determined by the procuring Magna Division (e.g. date and shift of manufacture along with sequential processing number). In some cases, the component may be critical enough so as to warrant part identification; these instances will be communicated through the appropriate quality and engineering groups unless superseded by the procuring Division(s).

Traceability requirements on prototype production parts may be defined by Magna and must be supported by the Supplier.

A lot should contain a specific quantity of parts and should not exceed eight hours or one day of

Traceability record retention deviations are only permitted if approved in advance in writing from your procuring Division(s).

CONTROLLED SHIPPING

- When directed by Magna, Suppliers may need to certify product after a lot rejection has occurred. Two types of controlled shipping actions are usually employed when this situation occurs:
 - Supplier conducted sort and certification of subsequent part shipments, and
 - Third party sorting and certification
- All controlled shipping actions are the responsibility of the Supplier to coordinate and manage. Any third-party sorting, re-work, inspection and containment activity must be conducted by a Supplier that is designated or approved by Magna. Any third-party arrangements, not specifically directed by Magna, must be reviewed and approved by the procuring Magna Division(s). Continued part supply to Magna must meet released quantities and without supply interruption.
- The Supplier and the Magna Division will agree on the method to be used to identify all certified material.

SUPPLIER TOP FOCUS AND ESCALATION PROCESS



The Magna Top Focus and Escalation Process is designed to assist Divisions in their efforts to reduce chronic Supplier quality and delivery issues and drive improvement in overall supplier performance.

The escalation process is only initiated after reasonable efforts have been made at the Division level, to address concerns and drive improvement, but without satisfactory results.

The escalation process ensures that:

- Appropriate levels of management are aware of issues and engaged in the resolution process
- Adequate resources are assigned to drive resolution of issues and ensure improvement
- Magna leverages the Customer and the Supplier's ISO and/or IATF 16949 Registrar appropriately, in the event Suppliers fail to

respond and provide necessary support

- As becomes necessary, the Magna "New Business Hold" and/or "Re-sourcing" options will be considered only upon consensus by all receiving Magna Divisions
- Appropriate communication is made to both Supplier and Magna executive management

The length of time spent at each step will be affected by the risk level and cost being incurred by Magna, as well as performance in meeting defined exit criteria.

Specific activities at each escalation stage may vary minimally, depending on the Magna Division involved, however in general the escalation process is as follows:

Standard SCM Process occurs at the Division level, and includes:

Standard/normal complaint management

- Performance Monitoring
- Development activity with under-performing Suppliers

Escalation E-1 includes escalation to the Group/ Business Unit level and includes:

- Magna Top Focus Process
- Suppliers are expected to effectively manage • Performance review & risk assessment across deviation expiry dates and must apply for any all Magna Groups necessary extensions prior to the expiry of current Necessary containment activities deviations. Suppliers must be able to support any • Supplier Assessment & corrective action of Magna's Customer-specific documentation Potential new business hold required as part of the implementation of proposed changes. Suppliers must also allow sufficient time Escalation E-2 includes escalation to the Magna to complete all required approvals at Magna, and at our affected Customer. Implementation of changes Magna monthly review (Region & Global) prior to final approval can result in:

Corporate level and includes:

- Potential notification to Registrar
- New business hold and potential re-source

4.4 PRODUCT OR PROCESS CHANGE & DEVIATIONS

Suppliers must have documented approval prior All proposed changes with any potential impact to shipping any material or product for which a on design or the manufacturing process (including deviation from specification is required. changes at your sub-Suppliers) must be submitted to the appropriate Magna Division(s) for approval, Initial shipment of all modified product, following prior to implementation. Suppliers are not implementation of the approved deviation, must authorized to make changes without documented, be clearly identified as directed by the appropriate written approval from Magna. Supplier must ensure Magna Division. that all supporting documentation is updated accordingly and may be subject to a PPAP/VDA submission.

Changes impacting legal requirements of chemical substances (e.g. REACH, ELV Directive, Global Automotive Declarable Substances List, etc.) on any A primary focus of Magna's Customers is expenses supplied products, shall be submitted in a timely attributed to product performance after vehicle manner via the IMDS system. Submissions must be sale. Financial liability associated with warranty is on a complete and correct Material Data Sheet. increasingly significant as consumer awareness Deviation approvals by Magna must be documented improves and OEM Customers extend warranty and approved in the format used by the procuring coverages. Division(s) and are limited to a determined quantity

of parts or duration of shipment. Requests must be made in advance and with ample time for implementation, if approved. Suppliers will be required to build and maintain sufficient inventories of parts, as determined by Magna, to support any changes and required approvals.

- Loss of existing status/designations
- Financial impact due to exposure to containment and other related costs to secure all unapproved materials
- Mandate to return to previous level/design materials, and associated scrap costs
- Loss of future business

4.5 WARRANTY

OEM Customers have stipulated that warranty costs will be shared with their supply base. As such, Suppliers will be expected to participate in warranty activities including:

- Warranty returns reviews/analysis
- Improvement actions
- Warranty cost responsibility

When a Supplier's component is implicated in a warranty, campaign or recall issue, with financial consequences to Magna based on Magna's Customers' warranty or recall policies, the Supplier must be prepared to accept these costs. The costs for which a Supplier shall be responsible shall be determined in accordance with Magna Purchase Order Terms & Conditions, and as defined by any Division specific Statement of Work (SOW) or Statement of Requirements (SOR) or warranty agreement.

5. OPERATION – CONTROL OF MATERIALS & LOGISTICS

In support of lean and efficient business processes, Suppliers must be able to support electronic data interchange via Standard or Web EDI. Acceptable message standards include VDA, ANSI and EDIFACT.

5.1 GENERAL REQUIREMENTS 5.2 PACKAGING **REGARDING LOGISTICS** PROCESSES

Suppliers shall design and manage their logistics processes to ensure quality and on time delivery of directed quantities to the location and at the times specified by Magna.

In partnership with our Suppliers, Magna will work to develop logistics planning that ensures:

- Minimal complexity in logistics business processes
- Maximum flexibility to support response to late changes in volume or timing of deliveries
- Minimal inventories in the supply chain
- Packaging designs support all handling and loading requirements
- Just in time delivery that complies with established delivery times
- Focus on continuous improvement
- Timely communication of all potential supply interruptions

Suppliers must be prepared to provide delivery costs based on:

- 1. FCA (Free Carrier)
- 2. DDP (Delivered Duty Paid)

- 3. Other (As directed by Magna) Based on the information provided, Magna will determine the Incoterms that will be used.

Brokerage fees on all imported products are typically the responsibility of Magna, unless otherwise indicated, by the procuring Division.

Suppliers are required to adhere to Packaging Guidelines as defined by the Magna Global Packaging and Shipping Manual, as well as all necessary AIAG/VDA Standards and Global REACH requirements. The Magna guidelines can be accessed via the Magna website (www.magna. com), ERFX Portal (https://ERFX.magna.com), QPF Portal (https://qpf.magna.com/) or from the Magna packaging representative. Special packaging and labeling requirements, in support of specific Product Launch activity, may be requested by a Magna facility. In the event that special packaging is required, design and approval will be managed as part of our overall APQP Program Delivery Process.

In preparation for product launch, production packaging approval, as well as back up packaging approval must be obtained from the Magna procuring Division(s) prior to a line Run @ Rate.

In order to ensure planned packaging optimizes the cube utilization of the transport vehicle, the Division assembly practices and lean operations, Suppliers are responsible to validate packaging design to these requirements if not directed differently by Magna. Approval must be submitted with the PPAP submission. A unit load, regardless of returnable or expendable packaging, must be stackable with overall dimensions that allow for optimum cube utilization of the transport vehicle. Packaging that will be used to support service requirements, also requires the approval of Magna. Magna encourages Suppliers to initiate design and cost improvement ideas, however Magna approval must be obtained prior to implementation of any packaging changes.

A completed Supplier packaging form must be submitted to the Magna Division, for approval of all new packaging or proposed changes to existing packaging. Approval must be granted prior to the first production shipment.

All Suppliers supplying goods to Magna, that are considered to be controlled materials, must comply with appropriate legislated regulations for labeling, packaging and shipping, including MSDS (Material Safety Data Sheet) documentation. Material requiring MSDS shall not be shipped, without prior approval.

All solid wood packaging/pallets and crates must comply with the International Plant Protection Convention Standard ISPM #15, as detailed in Magna's Global Packaging Guidelines (https:// www.magna.com/company/Suppliers).

Suppliers are responsible for the removal of all expired labels and debris from containers prior to packaging new material. Suppliers are responsible for ensuring that all containers are clean and that all functional gates or hinges are operational and safe.

5.3 | ABELLING

The Supplier shall be responsible for the clear identification of products during all phases of production and delivery, and shall ensure appropriate labelling prior to shipment.

All materials for prototype or production consumption, shipped to Magna Divisions, must be identified with labelling containing both humanreadable text / graphics, and machine-readable, bar coded symbols.

These materials shall contain, as applicable: container labels, master labels, mixed load labels, primary metals labels, and part labels if specified by design records or specifications. All labels must be legible and able to be scanned, in compliance to AIAG or VDA Standards or standards designated by the Division(s).

Characters and symbols shall comply with the requirements of AIAG, B-8 standard - Quality Assurance Guide for Shipping Labels, VDA 4994 Standard and Other Bar Code Applications.

Parts Shipping labels (container, master, and mixed load), shall comply with the layout formats defined in the latest AIAG or VDA Standards. Customer specific content may be specified by a Magna Division. Primary Metals labels shall comply with the layout format defined in the latest AIAG Primary Metals Standards.

Part labels shall comply with the requirements defined in the AIAG, B-4 standard – Parts Identification and Tracking Application Standard or VDA 4994 Standard.

Label placement, orientation, quality and guantities shall follow the guidelines contained in the AIAG, B10 Trading Partner Labels Implementation Guide, the AIAG B16 Global Transport Label for the Automotive Industry, or the VDA 4994 Standard, unless otherwise specified by Division specific requirements.

Barcodes shall conform to the standards published by the Automotive Industry Action Group standard (AIAG-B10) B-10 Label Specification or VDA 4994 Standard.

5.4 MATERIALS PLANNING AND FORECASTING

The nature of the manufacturing and assembly processes, within our Divisions, varies greatly. Based on the complexity of the manufacturing process, as well as the location and distribution of the supply base, each Division has unique materials planning requirements. Logistics and scheduling are Division specific and the Supplier should contact the Purchasing and Materials Groups at the procuring Division(s), for details.

Suppliers need to maintain sufficient safety stock It is the responsibility of the Supplier to immediately and finished goods inventory to accommodate contact the responsible Division in the event they 100% on-time delivery. Short shipments must are unable to meet all requirements for delivery be communicated immediately, along with a date, time, quantity and quality or if the Supplier corrective action and recovery plan. has not received a weekly or scheduled production release. Unless otherwise negotiated with the Suppliers with production contracts with Magna Magna Division(s) supplied, Magna is responsible must maintain the ability to provide after-market and service components for a period of fifteen for only those production releases identified as firm or locked releases. Similarly, Magna is responsible years following the end of program or production for only those raw material or component releases for individual components or assemblies, or for identified as firm or locked. Forecast volumes are such longer or shorter period of time as stipulated for forecasting purposes only. by Magna's respective OEM Customer for the Program, as communicated to the Supplier. The Suppliers must respond to all Material Releases Supplier has the responsibility to maintain any received from Magna in order to ensure their tooling and/or assembly equipment in condition own supply of components and materials can sufficient to support service requirements. Service support Magna Division demands. During schedules and pricing shall be determined in

critical stages, such as Product Ramp or negotiation with the procuring Division. Product Launch, Suppliers shall meet all release demands necessary to support system fill and launch. If the product or component is not 5.5 TRANSPORTATION, fully approved (PPAP) Suppliers must receive written authorization or an approved interim Part SCHEDULES & Submission Warrant (PSW) from the appropriate ROUTING Division personnel, prior to shipment. If the Supplier has not received such authorization, they shall elevate immediately, to the procuring It is important that our Suppliers are aware of Division's Materials Management organization, in transportation and delivery requirements, as order to ensure support of system fill and launch. it is one of the key performance metrics upon

Under no circumstances should unapproved material be shipped without proper, signed authorization.

Material forecasting information will be communicated to the Suppliers through their regularly scheduled releases. While this information is an indication of future material requirements, it is for the Supplier's planning purposes only and does not constitute a binding release authorization on the part of Magna. Suppliers assume the risk associated with lead times, of various raw materials and/or components, where quantities extend beyond those required to support Material Releases.

which they will be assessed. Magna supports the industry initiative of inventory reduction, recognizing however the importance this places on accurate and timely delivery of quality product, while also ensuring no customer production interruptions. It is our expectation that Suppliers will deliver 100% on time to our locations, in compliance to schedules.

In an effort to support JIT delivery, we expect our Suppliers to constantly strive to reduce lead times with their Suppliers, improve flexibility and minimize changeover times. If necessary to support JIT schedules, the Supplier may be asked to support local warehousing. All appropriate scheduling, routing, and delivery requirements will be communicated early in program award, typically through the Supplier Statement of Work or similar documentation used by the applicable Division. All transportation arrangements and requirements should be signed and agreed to by both organizations.

Suppliers may receive routing information including transportation method, pick-up and delivery window times as communicated by the Magna Division(s) you are working with. Your procuring Division(s) will make certain that all transportation and routing details are clearly specified. Suppliers must question any ambiguous or unclear instructions. Unauthorized deviations from these routing instructions may result in a debit to the supplier for any incurred excess freight charges, including resultant administrative charges.

All costs incurred as a result of missed or late shipments, which are the responsibility of the Supplier, shall be recovered from the Supplier. All material entering from a foreign country must have "Country of Origin" clearly marked on the pro forma Invoice, as well as on the original Commercial Invoice. Brokerage fees for imported product are typically the responsibility of Magna, unless otherwise negotiated by your procuring Magna Division. All fees and charges resulting from the

export / return of defective product shall be the responsibility of the appropriate Supplier.

5.6 BORDER SECURITY CTPAT/PIP/AEO (Applicable regions only)

In an effort to secure the supply chain and help protect the borders of our respective countries Suppliers shall cooperate with Magna, and as directed by your procuring Division(s), in support of compliance to minimum security requirements of the US Customs and Border Protection (US CBP), Customs-Trade Partnership Against Terrorism (CTPAT), Canada Border Services Agency (CBSA), Partners in Protection (PIP) and Authorized Economic Operator (AEO) Border Security programs.

http://www.cbp.gov/xp/cgov/trade/cargo security/ ctpat/

http://www.cbsa-asfc.gc.ca/security-securite/pippep/menu-eng.html

https://ec.europa.eu/taxation customs/generalinformation-customs/customs-security/authorisedeconomic-operator-aeo en#self

Suppliers, who are currently registered to CTPAT, PIP or AEO must complete the appropriate sections of the Magna Border Security Questionnaire, available at https://qpf.magna.com/. Suppliers who are not currently participating and Certified to CTPAT, PIP or an AEO Border Security Program must complete the entire questionnaire. All Suppliers must upload the completed questionnaire in ERFX (https://ERFX.magna.com/).

Suppliers that are NOT CTPAT Certified and actively tracked through the SVI monitoring process, must provide an updated Security Questionnaire on an annual basis. Failure to complete or post the questionnaire may affect a Supplier's rating and have potential impact on future business opportunities.

For shipments that cross international borders, Suppliers must ensure (where applicable) for all FTL/Dedicated loads, that a documented CTPAT/PIP/AEO trailer or container inspection is conducted and that the trailer or container is affixed with a high security seal that meets or exceeds the standards outlined in ISO/PAS 17712. The seal number must be included on the Supplier's shipping documentation and in the ASN for production and service shipments.

5.7 FTA/CUSTOMS COMPLIANCE (Applicable regions only)

Suppliers within the North American USMCA known shortage or late shipment, the Supplier region must complete the USMCA Certificate of shall contact the appropriate Magna Division(s) Origin, as directed by your procuring Division(s). and advise of the shortage or late shipment. The Suppliers outside the North American USMCA Supplier shall also indicate the anticipated time region, as well as Suppliers in Europe, must of delivery of the expedited material required to complete a Declaration or Statement of Origin, as complete the original schedule. This notification is critical in allowing communication to production directed by your procuring Division(s). At times, other documents may be requested to fulfill our and, if necessary, to a Magna Customer. obligations under the United States-Mexico-Canada (USMCA) Free Trade Agreement or in The Supplier shall maintain a third-party, or an compliance to third country deliveries within the alternate, approved contingency to facilitate European Union. All completed documents shall scheduling and ASN communication in the event be submitted as per direction from your procuring of a system failure at their location. Division(s). It is your responsibility, as a Supplier, to notify your procuring Division(s) within thirty Suppliers must ensure that all material shipped is (30) days of any change in the USMCA status of a identified on a Packing Slip or Bill of Lading. While procured good. Failure to complete the requested individual Division specifications may differ, the documents, or advise of a change in USMCA information typically required includes: status, may affect your rating and have potential Shipment date impact on future business opportunities. Suppliers Invoice/Packing Slip number Address Sold to shall be responsible for costs incurred as a result of missing, late or inaccurate reporting. Suppliers • Address Shipped to must inform Magna immediately, in the event of Individual line item for each part number any change to the origin of goods. shipped

It is also expected that Suppliers maintain sufficient and required expertise to ensure, in partnership with Magna, all necessary USMCA

and Customs Compliance regulations and
documentation.
http://www.cbsa-asfc.gc.ca/trade-commerce/
tariff-tarif/ (Canada)
http://www.cbsa-asfc.gc.ca/publications/pub/
bsf5083-eng.html (Canada)
http://www.usitc.gov/tata/hts/bychapter/index.htm
(United States)

5.8 DOCUMENTATION

An Advance Shipping Notice (ASN) must be sent to the Material Planner, or appropriate Division contact, within 30 minutes of each shipment leaving the Supplier's Division. In the event of a

- Part Number and Part Description
- Purchase Order number, for each part number
- Order release number
- Quantity ordered & Quantity shipped

- Number of cartons/skids/containers shipped
- Total number of cartons/skids/weight

5.9 MATERIALS MANAGEMENT **OPERATIONS** GUIDELINES (MMOG)

The "M-7: Global Materials Management Operations Guideline Logistics Evaluation (MMOG/ LE)" guidelines were developed to reduce the time and work required by Suppliers and customers to determine materials process compliance. Using the new browser-based MMOG.np application (available at https://www.odette.org/ mmog/information), Suppliers complete a selfassessment and receive "A," "B," or "C" ratings based on their compliance. While deficiency in one or more critical areas automatically earns a "C" rating, the MMOG/LE guide automatically develops an action plan to allow companies to address deficiencies and drive continuous improvement.

Suppliers shall, at minimum, complete the Basic MMOG v5 Assessment, or the Full Assessment or any other specified assessment, as requested by their procuring Division. Completed MMOG v5 self-assessments must be sent to the Magna mailbox at odette-6211@mail2.mmogle.com. Suppliers unfamiliar with MMOG shall contact Odette for assistance (China – cs@cedex.cn, North America - mmogle_help_desk@basics-llc.com, Others - mmog@odette.org).

6. CONTROL OF EXTERNAL PRODUCTS & SERVICES

6.1 SUPPLIER PERFORMANCE REPORTING

Supplier performance and overall status is monitored and reported through various reporting systems such as ERFX, QPF and other internal reporting systems, designed to report supplier status to other Magna Divisions. Group and Division specific reports may be available through local Purchasing or Quality departmental contacts.

6.2 OPERATIONAL **BATING CRITERIA**

Supplier quality and delivery performance is the basis for a Supplier's operational status and is monitored by Magna on a regular basis. Suppliers can access online performance data through ERFX (https://ERFX.magna.com).

Key operational metrics will include, but not be limited to:

- Defective parts per million (PPM)
- Number of non-conformance incidents
- Response time
- Costs of non-conformance
- Special status (CS1, CS2 etc.)
- On time delivery
- Material expedites
- Incidents of premium freight

Suppliers are expected to take immediate and appropriate action to address any performance shortcomings that are identified through the performance metrics. The Magna escalation model will be used, as necessary, to address under-performing Suppliers. Suppliers shall have documented processes showing similar rating criteria, escalation processes and development strategies, for sub-tier Suppliers.

6.3 CONTINUOUS **IMPROVEMENT**

Suppliers must establish continuous improvement as an integral part of their management systems and business planning process. Continuous improvement activities must by documented and tracked as key performance indicators. Suppliers are expected to establish continuous improvement targets and use all appropriate data to drive continuous improvement and improve customer satisfaction. It is expected that Suppliers will use all appropriate tools, such as the PDCA cycle, Six Sigma and other appropriate methodologies to ensure a disciplined and systemic approach to continuous improvement.

7. GLOSSARY OF TERMS

AEO Authorized Economic Operator **AIAG** Automotive Industry Action Group **APQP** Advance Product Quality Planning **ASN** Advance Shipping Notice **CAD** Computer-aided Design **CAMDS** China Automotive Material Data System **CAR** Corrective Action Request **CDP** Carbon Disclosure Project **CMP** Conflict Minerals Platform **CMRT** Conflict Minerals Reporting Template **CQI** Continuous Quality Improvement Series of self-assessment standards for specialized processes including, heat treat, plating, coating, warranty, welding and soldering **CS** Controlled Shipping **CTPAT** Customs-Trade Partnership Against Terrorism **DDP** Delivered Duty Paid **DFMA** Design for Manufacturing and Assembly DFMEA Design Failure Modes Effects & Analysis **DOE** Design of Experiments **DUNS** Data Universal Numbering System A unique nine digit identification number, issued by Dun & Bradstreet, identifying each unique business

DV Design Validation

EMPB Erstmusterprüfbericht (German Initial Sample Test Report)

ERFX Magna Global Supplier Management System

EV Engineering Validation

FCA Free Carrier

FEA Finite Element Analysis

FIFO First In First Out

FMEA Failure Mode and Effects Analysis

FMVSS Federal Motor Vehicle Safety Standards

GADSL Global Automotive Declarable Substance List

GD&T Geometric Dimensioning & Tolerancing

IATF International Automotive Task Force

IEC International Electrotechnical Commission

IMDS International Material Data System

ISO International Organization for Standardization

ISPM International Standards for Phytosanitary Measures

JIT Just in Time

MMOG Materials Management Operations Guidelines

MSA Measurement Systems Analysis

MSDS Material Safety Data Sheet

OE(M) Original equipment (manufacturer)

OHSAS Occupational Health & Safety Advisory Services

PCP Process Control Plan

PDCA Plan-Do-Check-Act

PFD Process Flow Diagram

PFMEA Process Failure Modes Effects & Analysis

PIP Partners in Protection

PPAP Production Part Approval Process

PSW Part Submission Warrant

PV Production Validation

QPF Supplier Quality Management Platform

REACH Registration, Evaluation, Authorization and **Restriction of Chemicals**

RPN Risk Priority Number

SPICE Software Process Improvement and Capability Determination

SOR Statement of Requirements

SOW Statement of Work

SQA Supplier Quality Assurance

SQD Supplier Quality Development

TISAX Trusted Information Security Assessment Exchange

location.

TPISR Third Party Information Security Requirements

TS Technical Specification

USMCA United States-Mexico-Canada Agreement

VDA Verband der Automobilindustrie (German Automobile Industry Association)

8. REFERENCES

RECORD OF REVISIONS

e-RFX Electronic Request	https://erfx.magna.com	Old Revision Level	New Revision Level	Section	Description of Change
for Information	https://enx.magna.com	06-01-2016	03-30-2017	ALL	Revised and updated for ISO 9001:2015 and IATF 16949
QPF Quality Platform	https://qpf.magna.com/	03-30-2017	08-20-2018	Sec. 1 & References	Links to new Magna website updated
Conflict of Interest Policy	https://www.magna.com/company/suppliers	08-20-2018	04-30-2019	Sec. 2.1 (Pg.8)	Requirement for DUNS added
Conflict Minerals	http://www.conflict-minerals.com				
CQI Continuous Quality Improvement	https://www.aiag.org	08-20-2018	04-30-2019	Sec 2.2 (Pg.10)	Cyber security requirements added
CTPAT Customs & Trading Partners Against Terrorism	https://qpf.magna.com	08-20-2018	04-30-2019	Page 7	Addition or requirements for counterfeit product
IATF International Automotive Task Force	http://www.iatfglobaloversight.org/	08-20-2018	04-30-2019	Page 16	Reference to Top Focus process added
IATF 16949	https://www.aiag.org	08-20-2018	04-30-2019	Page 24	Border Security revised
ISO 9001:2015	https://www.aiag.org	08-20-2018	04-30-2019	Page 25	FTA/Customs Compliance revised
ISPM International Standards for Phytosanitary Measures	https://www.magna.com/company/suppliers	04-30-2019	01-01-2021	Sec 1.4, Pg 6	Sustainability language updated
Magna Global Packaging Guidelines	https://www.magna.com/company/suppliers	04-30-2019	01-01-2021	Sec 1.4, Pg 7	SResponsible Sourcing of Raw Materials added
MMOG Materials Management Operations Guidelines	https://www.aiag.org	04-30-2019	01-01-2021	Sec 2.1, Pg 8	Contact information added for eRFX registration
MAQMSR Minimum Automotive Qualit System Requirements	y Management www.iatfglobaloversight.org	04-30-2019	01-01-2021	Sec 2.2, Pg. 10	Cyber & Information Security updated
NAFTA/Customs Compliance	http://www.cbsa-asfc.gc.ca/trade-commerce/tariff-tarif/ http://www.cbsa-asfc.gc.ca/publications/pub/bsf5083-eng.html http://www.usitc.gov/tata/hts/bychapter/index.htm	04-30-2019	01-01-2021	Sec 3.1, Pg. 11	Sub-tier supplier risk analysis added
TISAX Trusted Information Security Assessment Exchange	www.tisax.org	04-30-2019	01-01-2021	Sec 5.3, Pg.22	Labelling & Packaging – updated references
TPISR Third Party Information Security Requirements	https://www.aiag.org/supply-chain-management/cybersecurity	04-30-2019	01-01-2021	Pg. 19	Top Focus and Escalation Process revised
		04-30-2019	01-01-2021	Pg. 25	Border Security – Requirement for trailer inspection added

