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***Henniges***  
***Supplier***  
***Quality***  
***Manual***

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## 1 INTRODUCTION

### 1.1. PURPOSE:

The purpose of this manual is to define Henniges Automotive processes and requirements for suppliers in an effort to improve communication and Henniges expectations of suppliers beyond the purchase order agreement.

The common goal is to achieve a high level of quality and customer satisfaction at the lowest cost.

### 1.2 APPLICABILITY / SCOPE

This manual applies to all Henniges Automotive Suppliers

### 1.3 RESPONSIBILITY

Supplier Quality or as defined in this manual or Henniges functional job descriptions and responsibilities.

### 1.4 DEFINITIONS / ABBREVIATIONS

#### 1.4.1 DEFINITIONS

Key Suppliers – Suppliers that provide materials and components that comprise the final product.

Company – Henniges Automotive

Supplier – Henniges Tier II

Sub-Contractor – Tier III

#### 1.4.2 ABBREVIATIONS

APQP	Advance Product Quality Planning
CC	Critical Characteristic
DFMEA	Design Failure Mode Effects Analysis
ECAP	Equipment Capability Acceptance Process
IMDS	International Material Data System
PFMEA	Process Failure Mode and Effects Analysis
PPAP	Production Part Approval Process
PO	Purchase Order
QMS	Quality Management System

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RFQ	Request for Quote
RMA	Return Material Authorization
R&R	Repeatability and Reproducibility
SC	Significant/Special Characteristic

## 2 MANUAL

### 2.1 APPLICATION

- 2.1.1 This agreement is a part of the supply contract with all locations of Henniges Automotive and affects all articles.
- 2.1.2 To cover all particular requirements for product and services, specific supplements to this standard can be agreed upon, but must be documented in the supply contract.

### 2.2 QUALITY MANAGEMENT SYSTEM OF THE SUPPLIER

- 2.2.1 The supplier must implement and maintain a quality management system with the obligation to have zero defect objectives, to continually improve delivery, product quality, and quality management system. Supplier must have a documented continual improvement process.
- 2.2.2 Key suppliers at a minimum will be certified to ISO 9001:2008 and/or ISO/TS 16949:2009
- 2.2.3 The environment is a priority to Henniges and therefore suppliers are encouraged to be certified to ISO 14001 or working toward certification to ISO 14001.
- 2.2.4 Calibration and Testing Service Suppliers must be certified to ISO/IEC 17025.
- 2.2.5 Supplier must inform Henniges of any changes to their quality management system certification status.
- 2.2.6 Henniges Purchasing and Supplier Quality will evaluate the use of non-certified key suppliers on a case-by-case basis. At a minimum, Supplier Quality or designee will complete an audit for conformity to the ISO/TS 16949:2009 before approving the supplier per customer specific requirements. Supplier will be audited annually.

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## 2.3 QUALITY MANAGEMENT SYSTEM OF SUBCONTRACTOR

- 2.3.1 The Henniges supplier is to obligate its subcontractors to implement and maintain a comparable quality management system with the same zero defect obligations for parts purchased and/or externally fabricated.
- 2.3.2 Supplier must have a documented process to verify incoming components and materials meet requirements.
- 2.3.3 The company can request documented proof from the supplier that they have verified the effectiveness of their subcontractors QMS.

## 2.4 AUDITS

- 2.4.1 The supplier allows the company to establish by audits whether its quality assurance measures fulfil the requirements defined in this manual or national standard. The audit can be a system, process, or product audit and the supplier will be notified in advance of the audit date.
- 2.4.2 The supplier is to grant Henniges access to all operating sites, checkpoints, stores, adjoining areas, and related quality documents required to complete the audit. Appropriate restrictions will be accepted when identified by the supplier in advance of the audit to protect security of company secrets and/or confidentiality.
- 2.4.3 Henniges will require the supplier to implement corrective action and/or action plans to improve product or processes based on the audit results, if applicable. Plan must include responsibility and due date for completion. Supplier will report the status of the plan per agreement.
- 2.4.4 When quality or other problems emerge that have been caused by products, services, and/or deliveries by the subcontractor of the supplier. The supplier is responsible for auditing their supplier and identifying, implementing all required improvement actions. When the issue has an affect on Henniges supply or product quality the supplier should notify Henniges of the improvement actions or issues with any subcontractor.

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**2.5 SUPPLIER SELECTION / AWARD PROCESS (RFQ / SELECTION)**

- 2.5.1 Henniges Buyer will select suppliers from the Henniges Approved Supplier List (ASL) and other suggested suppliers. Suggested or customer selected suppliers must be approved prior to award of business.
- 2.5.2 The complexity of the product and severity of the interaction with the product fit, appearance, performance, and durability requirements will also be a factor in selecting a supplier for quoting.
- 2.5.3 Suppliers selected that meet above criteria will receive an RFQ.
- 2.5.4 Supplier quote must include tooling, equipment, gauging, and piece price costs along with PPAP timing to Henniges.
- 2.5.5 The supplier has accepted manufacturing feasibility of the product by submitting the quote to Henniges.
- 2.5.6 Henniges Buyer will review quotes, document cost and timing in a matrix for team review.
- 2.5.7 The Henniges Buyer with input from the program team will select a supplier based on tooling cost, piece price, timing, financial stability, and supplier rating.
- 2.5.8 Henniges Buyer will notify the approved supplier of business award and verify cost, timing, and payment terms prior to issuing a purchase order.

**2.6 PRODUCT/PROCESS DEVELOPMENT AND PLANNING (APQP)**

**2.6.1 GENERAL DEVELOPMENT REQUIREMENTS**

- 2.6.1.1 The supplier shall plan and develop product and processes required for product realization (PPAP) based on their quote and Henniges program timing. The plan must facilitate communication within the organization to ensure all required steps are completed on time, at acceptable quality and cost levels.
- 2.6.1.2 Supplier must review and approve feasibility of the product required by Henniges prior to initiating a quote and/or accepting a purchase order. Feasibility must include manufacturing, appearance, material performance, and durability based on product requirements.

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- 2.6.1.3 Henniges empowers it's suppliers to identify, document and communicate any issues or concerns with design, materials, performance, appearance, and durability based on their expertise, knowledge and lessons learned from similar products.
- 2.6.1.4 The supplier is responsible for disposition of all product requirement concerns prior to accepting the Henniges purchase order.
- 2.6.1.5 The supplier must ensure confidentiality of Henniges designs and specifications for products and processes under development. Henniges will ensure confidentiality of supplier's proprietary designs and processes under development. In highly sensitive cases a documented confidentiality or no compete agreement may be required between customer, Henniges, and supplier.
- 2.6.1.6 The supplier must allow Henniges to review product and process development and planning via on-site review and confirmation during development, if required.
- 2.6.1.7 Supplier must notify Henniges if there is a change in program timing and a risk to meeting agreed upon tooling completion or PPAP date. Supplier will be required to add additional resources and/or work additional hours (7 Days, 24 Hours) to ensure date is met.
- 2.6.1.8 The qualification and approval of tools, equipment and gauges will be defined and controlled by Henniges Component ECAP process. Approval will include run at rate, process capability, Gauge R&R, and PPAP.

## 2.6.2 DESIGN / PROCESS CONTROL

- 2.6.2.1 The supplier shall have a process to control or react to design and process changes required. The supplier is responsible for verifying that the required Henniges written approval or amended or new purchase order has been obtained prior to proceeding with any change.
- 2.6.2.2 The supplier is responsible for change feasibility of their product to purchase order and Henniges defined requirements.
- 2.6.2.3 **Supplier must receive all math data files for product development or tool change from the Henniges controlled FTP web site with user identification and a password issued by the Henniges data coordinator via data transfer form. All math data files received through e-mail or other methods are not controlled and should not be used by the supplier.**

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- 2.6.2.4 All special and critical characteristics must be defined on all process control documents. (ie. Process Flows, Control Plans, PFMEA, Inspection Plans, etc...)
- 2.6.2.5 Supplier should have an effective RPN reduction process that reduces RPN in the following order: Severity, Occurrence, and Detection.
- 2.6.2.6 SPC is required for all SC or CC dimensions and fuctions listed in the design record and control plan. Process capability must be documented and evaluated. All critical characteristics (CC) must have mistake-proofing to prevent failure modes unless written agreement is obtained from Henniges quality. 100% verification is required when acceptable capability is not realized.
- 2.6.2.7 Mistake proof sensors and function must be verified with test masters or ‘rabbits” at the beginning of each shift and documented.
- 2.6.2.8 Statistical process control (SPC) can be used to measure and evaluate process capability for any dimension or function. Acceptable capability is required for a selected dimension (when no SC or CC is stipulated) for PPAP to responsible Henniges facility. 100% verification is required when acceptable capability is not realized.
- 2.6.2.9 Supplier must submit capability (Cpk) data to the purchasing Henniges Plant on a quarterly basis for all SC and/or CC dimensions or performance testing or select dimension used for PPAP. Capability submission is required to meet incoming supplier quality requirements.
- 2.6.2.10 Increased inspection frequency is required for the first three months of production or until acceptable quality and capability is realized and Henniges quality has agreed to stop increased inspection.

### 2.6.3 PROCESS APPROVAL

- 2.6.3.1 Process requirements and documentation at a minimum must meet the latest edition of the AIAG PPAP manual. Henniges may require additional evaluation or records as required. Henniges will submit those requirements to the supplier in advance through the Mold SOR or Equipment SOR.



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- 2.6.3.2 The supplier shall provide and maintain a timing plan to meet the contract agreement. Timing status will be submitted to the identified Henniges team members.
- 2.6.3.3 Equipment, tooling, and components will be evaluated and approved based on drawing or specified requirements in the Mold SOR and Equipment SOR documents along with run at rate and capability evaluation. Capital equipment requires buyoff at the supplier and Henniges plant unless otherwise agreed upon.
- 2.6.3.4 Equipment and tooling ownership must be permanently marked and verified prior to Mold SOR, Equipment SOR, or PPAP approval. Identification shall read "Property of Henniges/(OEM Name)". If OEM has additional tag and identification requirements including photographs then the supplier must provide this support prior to PPAP.

## 2.6.4 PROTOTYPE PARTS

- 2.6.4.1 The goal is to manufacture prototype parts using a production process and tools. But, at a minimum the supplier must use process planning (flow charts, control plans, inspection plans, and work instructions) to define and implement the prototype build. All special and critical characteristics must be documented on all process control documents.
- 2.6.4.2 Prototype parts must meet all drawing requirements prior to shipment. Supplier must have a dimensional plan to layout or CMM parts to show conformance to drawing requirements for each serial numbered part, as required. Quantity of parts inspected will be documented in the specific build plan. SC or CC characteristics must be inspected 100% until acceptable capability is realized on a production process.

## 2.6.5 TEST EQUIPMENT AND GAUGES

- 2.6.5.1 All test equipment and gauges must be calibrated traceable to NIST. All external calibration companies must be certified to ISO/IEC 17025 or national equivalent.

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- 2.6.5.2 A test and inspection plan must be developed to measure all agreed upon dimensions or functions and SC or CC requirements in the design record based on the control plan. Variable data is required for all SC and/or CC characteristics unless otherwise authorized in writing by the Company quality department.
- 2.6.5.3 Gauge R&R goal should be less than 10% of product tolerance, but based on cost and feasibility Henniges will accept an R&R at  $\leq 20\%$ . Gauge R&R of  $>20\%$  must have a corrective action plan to develop the gauge and improve the R&R to 20%. If 20% is not realized, Henniges quality may approve R&R up to 30% based on product criteria and cost/benefit analysis of data. Greater than 30% must have corrective action.
- 2.6.5.4 All test equipment or gauges purchased through a Henniges Automotive purchase order must be permanently identified as owned by "Henniges/OEM Customer Name". See 2.6.3.4 for additional requirements.
- 2.6.5.5 Test equipment and gauges will be approved as stated above and PPAP but Henniges customer may require review and approval of gauge design prior to gauge build. If required, Henniges customer's approval process will be enforced.

## 2.6.6 PLANNING OF PROCESS EQUIPMENT/ PREVENTIVE MAINTENANCE

- 2.6.6.1 Supplier's manufacturing processes and operating equipment must be planned and developed with sufficient capacity to produce the required features within tolerance at the specified part volume plus customer required percentage increase.
- 2.6.6.2 The process plan includes the Process FMEA development and improvement actions. PFMEA, RPN must be scored correctly to the latest version of the AIAG FMEA Manual. PFMEA is a risk analysis tool used to identify product variation risk based on current process measurables, product quality concerns and lessons learned on past and current products.
- 2.6.6.3 The capability of operating equipment and processes must be demonstrated. Unless otherwise stated by the OEM customer, the minimum requirement for short-term capability is 1.67 Cpk and long-term process capability is 1.33 Cpk. Short-term is defined at 30-100 measured values and long-term is after 20 or more production days at normal or contracted production capacity.

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2.6.6.4 The supplier must have a documented process and schedule for preventive maintenance. The maintenance schedule must include all Henniges or Henniges customer owned equipment and tooling. Supplier is responsible for identifying and stocking key replacement parts.

## 2.6.7 PACKAGING PLAN / PRODUCT IDENTIFICATION

2.6.7.1 Packaging must be developed and defined to eliminate damage during transportation and storage. Convenient handling and environmental aspects must be considered along with quantity allowed, suitability for transportation, stacking, and cost. Environmental aspects and reduction in quality based on pollution, corrosion, and chemical reaction must be evaluated and avoided.

2.6.7.2 If no specific requirements for packaging are defined by Henniges, the supplier must define the packaging agreement with Henniges Purchasing prior to production PPAP and or delivery. Transportation and/or packaging trials must be completed prior to SOP to confirm robustness of dunnage to protect product.

2.6.7.3 The supplier must ensure identification and traceability of products supplied. This identification includes labeling of packaged products, manufacturing location, mfg date, shift, and part identification, as required in the agreement.

## 2.6.8 TRAINING

2.6.8.1 The supplier's employees must be competent and qualified for their job function. The supplier must ensure this through appropriate internal or external training courses. A training record must be available for all employees producing a product or service for Henniges

2.6.8.2 All shifts shall be staffed with personnel responsible for ensuring part or product quality.

## 2.6.9 INITIAL PPAP SAMPLES / IMDS

2.6.9.1 The supplier is to submit for approval the manufactured first samples off the production process and tooling in the agreed amount. Inspection frequency for capable processes will be per the control plan and non-capable processes require 100 % gauging or inspection or as agreed upon with Henniges quality.

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- 2.6.9.2 Evaluation, testing, inspection, and process data from sample run must be documented in the PPAP package per AIAG PPAP Manual and submitted to the specified Henniges Plant. Supplier shall submit Level 3 PPAP documentation at a minimum unless otherwise agreed upon in writing from the Company quality group.
- 2.6.9.3 The supplier must provide verification concerning the composition of the materials used and their individual components as well as aspects relating to the environment. Supplier must input the IMDS data into the system prior to delivery of first samples or PPAP package.
- 2.6.9.4 Supplier will implement additional 100% inspection as required by Henniges or OEM inspection requirements during launch or after major design and/or process changes. Time period for extra inspection will be defined by Henniges.

## 2.6.10 RE-SUBMISSION OF PPAP

2.6.10.1 The supplier must submit a new PPAP package if the following occurs:

- Changes to manufacturing materials (also from subcontractors) defined in the process documents, specifications, and design record.
- Change to process steps or elimination of a process step.  
(Example: Part bent using a bender changed to on-line sweep process)
- Changes to the inspection process / equipment defined in the process documents.
- Change of Subcontractors
- Transfer of manufacturing location
- Transfer of the manufacturing equipment within the location, if and only if, the process sequence or process steps change.
- New start-up after decommissioning of 12 months or more.

## 2.6.11 ACCEPTANCE TESTS / TEST CERTIFICATES

2.6.11.1 Acceptance and test certificates are not required for PPAP product shipments, unless specified. The supplier must record all test and acceptance data and file it incase Henniges requests to review the documents.

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2.6.11.2 The supplier is stating in the PPAP that the goods delivered are free of faults, have guaranteed characteristics and correspond to the requirements defined in the design and process records.

## 2.7 SUPPLY CHAIN MANAGEMENT

### 2.7.1 SUPPLIER COMMITMENT

2.7.1.1 Henniges Purchasing will seek long term agreements and commitments with commodity suppliers to facilitate the cost reduction programs required by our customers. This may include rebates and future cost or price structuring based on specific volume levels or business percentages.

2.7.1.2 All long term and short-term commitments will be negotiated by Henniges Purchasing and documented. All Henniges facilities will be notified of any agreements.

2.7.1.3 Henniges has high expectations of all suppliers and will seek commitments with suppliers that have a strong commitment to quality improvement and cost savings by contract agreement.

### 2.7.2 SUPPLIER DEVELOPMENT

2.7.2.1 Based on finite resources, Henniges will prioritize supplier development projects or plans based on supplier performance ratings and importance of the product or component to product quality and customer satisfaction.

2.7.2.2 A supplier development plan or controlled shipping may be initiated based on poor quality and delivery performance as the last step before possible product re-sourcing is approved.

2.7.2.3 Supplier development plans may include support in quality systems, Lean Mfg, six-sigma, team oriented problem solving, etc...

### 2.7.3 CONTROLLED SHIPPING

2.7.3.1 Based on continued poor quality and/or delivery performance a supplier may be notified by Henniges that controlled shipping is required to protect Henniges and their customer from further problems. Henniges quality shall identify specific defect or concern to be controlled.

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2.7.3.2 Controlled shipping (CS) has two levels:

2.7.3.2.1 **Level CS-1** – The supplier must identify specific personnel to monitor, measure, inspect and certify all product shipped to Henniges and identify all product that was inspected. A report must be generated that identifies the type and quantity of defects or problems that were found by the CS-1 inspection.

2.7.3.2.2 **Level CS-2** – Supplier must employ an independent third party to monitor, measure, inspect, and certify all products. All certified products must be marked and identified. A report must be generated that identifies the type and quantity of defects or problems that were found by the CS-2 inspection. Supplier must identify the CS-2 organization responsible to Henniges quality personnel. If supplier refuses to comply with CS-2 request then Henniges may set-up CS-2 at their facility and charge back the cost to the supplier.

2.7.3.3 A supplier will be removed from controlled shipping when inspection data shows a stable process for twenty production days for the specific defect or concern. Henniges quality personnel will review the data and current issues and if acceptable will remove the supplier from controlled shipping.

## 2.8 SUPPLIER RATING / EVALUATION

### 2.8.1 EVALUATION OF APPROVED SUPPLIERS

2.8.1.1 Supplier performance shall be monitored for performance through the following indicators:

- **DELIVERY PERFORMANCE INCLUDING PREMIUM FREIGHT. (40 POINTS) 100% ON-TIME DELIVERY IS REQUIRED.**
  - A - Quantity Violation (Over/Under Shipment) = **-3 Pts / Incident**
  - B - Expedited Shipment = **-3 Pts / Incident**
  - C - Shipment Violation: (missing paperwork, incorrect mode, incorrect carrier, missing ASN, late ASNs, missing barcode labels, barcode labels that will not scan or with incorrect data, supplier portal issue, NAFTA Certificate of Origin not submitted timely, etc) = **-3 Pts / Incident**
  - D - Mfg Disruption Due to Delivery Concern = **-10 Pts / Incident**

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- **Delivered product quality (PPM) (40 Points)**

0 – 25 PPM = 40 Pts

26 – 100 PPM = 35 Pts.

101 – 200 PPM = 30 Pts.

201 – 300 PPM = 25 Pts.

301 – 400 PPM = 20 Pts.

401 – 500 PPM = 15 Pts.

501 – 700 PPM = 10 Pts.

701+ PPM = 0 Pts.

- **Lack of response to 8D requests or issues (10 Points)**

Point reduction from ten is subjective per plant perception

- **Late PPAP or Incomplete (10 Points)**

Point reduction from ten is subjective per PPAP expectations

- 2.8.1.2 Henniges will provide the supplier rating to each supplier at a minimum of once per year.
- 2.8.1.3 Suppliers with an 80 – 100 rating may be evaluated for improvement based on a single event such as customer disruptions, field returns, and/or quality issues.
- 2.8.1.4 Suppliers with a rating less than 80 may be evaluated for improvement by the global supplier quality group. Improvement plan may include an audit of all processes and related documents or additional training. Improvement plan will be documented.
- 2.8.1.5 Suppliers with a rating below 80 after improvement plan implementation may be evaluated for resourcing of product. Supplier quality and purchasing will jointly evaluate the supplier for additional improvement or resource planning. If necessary, the supplier shall help Henniges plan (bank build) and execute a resource plan.

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## 2.8.2 SUPPLIER CHARGE BACK / DEBIT

### 2.8.2.1 SUPPLIER PRODUCT SHIPPED TO HENNIGES FACILITIES

- 2.8.2.1.1 In the event that non-conforming material is received by Henniges. The supplier is required to take immediate containment action (< 24 Hrs.). The supplier must provide a detailed problem solving analysis and 8D within 10 days or earlier as agreed upon between the supplier and Henniges Quality. If required, the specific OEM format will be used to document the permanent corrective action.
- 2.8.2.1.2 Costs incurred by Henniges due to poor product quality, non-conforming product, and delivery based on contractual requirements may be charged back to the supplier.
- 2.8.2.1.3 Henniges will debit the supplier for all non-conforming or rejected material received and the cost to ship the products back to the supplier, if required.
- 2.8.2.1.4 If product sorting is required, Henniges expects the supplier to sort their product. If Henniges is in a shutdown situation they will sort immediately and charge back the sorting cost to the supplier.
- 2.8.2.1.5 Special circumstance or unusual situations will be handled on a case-by-case basis through purchasing.
- 2.8.2.1.6 Henniges facilities may have different forms, process steps and charges based on their internal returned material or supply management process. Management Fee charges will be defined and documented by each facility.

### 2.8.2.2 SUPPLIER PRODUCT SHIPPED DIRECTLY TO THE CUSTOMER

- 2.8.2.2.1 If Henniges receives a rejection from the customer on a supplied product. The supplier is fully responsible for the following costs:
  - Henniges travel costs to attend meetings at the customer facility to correct or support a quality or delivery issue.
  - All costs related to Controlled Shipping Level CS-1 and/or Controlled Shipping Level CS-2 per OEM requirements.
  - All customer debits for line stoppage, sorting, replacement of parts, expedited shipments, and other charges incurred because of an issue with the suppliers product.



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- Management Fee for returned material or supply management process defined by the responsible Henniges Facility.

### 2.8.3 PRODUCT / SUPPLIER RE-SOURCING

- 2.8.3.1 If a supplier continues to have quality or delivery issues with Henniges, re-sourcing of that product to a different supplier will be considered. Suggested suppliers must be approved or have a Quality Rating >80 prior to award of business.
- 2.8.3.2 Upon request, the supplier shall provide a detailed list of Henniges owned tooling and gauges along with specific capital equipment attached to the tooling to complete the current process.
- 2.8.3.3 Supplier is required to provide additional product up to the contract and additional 25% quantity to build the required product bank to protect product availability and quality to the customer.
- 2.8.3.4 Upon re-source approval, purchasing will issue formal re-source notification to the current supplier along with the specific timing of the tool move based on the re-source plan.
- 2.8.3.5 Henniges will witness the transfer of tooling and gauges and address any issues or concerns that may arise during the process.
- 2.8.3.6 Henniges quality will follow the re-source through plant trials and PPAP of the product and process at the new supplier.

## 3 REFERENCE DOCUMENTS

AIAG PPAP Manual  
 AIAG FMEA Manual  
 AIAG MSA Manual  
 AIAG APQP Manual

<b>Title</b>		<b>Revision Level</b>
<b>Supplier Quality Manual</b>		<b>03</b>
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<b>Revision</b>	<b>Changes made:</b>	<b>Date:</b>
<b>01</b>	<b>Original GDX Manual updated to Henniges Requirements and Henniges Numbering and Format</b>	<b>10/28/08</b>
<b>02</b>	<b>Updated to ISO 9001:2008 and ISO/TS 16949:2009</b> 2.2.2 – Updated to ISO 9001:2008 and ISO/TS 16949:2009 2..2.6 – Updated to ISO/TS 16949:2009 2.6.3.1 – Changed ECAP to Equipment SOR 2.6.3.3 – Changed ECAP to Equipment SOR 2.6.3.4 – Added supplier must support additional ownership marking with photographs to new OEM requirements 2.6.5.4 – Added see 2.6.3.4 for additional identification	<b>10/14/09</b>
<b>03</b>	<b>Revised 2.8.1.1, score deduction for Shipping Violations to -3, was -5. Also added in 100% on-time delivery is required. Expanded types of Shipping Violations.</b>  <b>Approvers changed from Tom Waterstradt to Nick Shebib. Also updated Contact name and numbers for questions.</b>	<b>7/11/12</b>

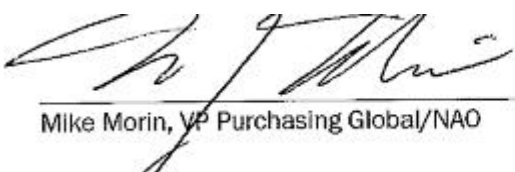
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**4 APPROVAL:**

  
 \_\_\_\_\_ Date: 7/11/12  
 Nick Shebib, Director of Quality

  
 \_\_\_\_\_ Date: 7-17-12  
 Mike Morin, VP Purchasing Global/NAO