



# **TREMEC**<sup>®</sup>



## **Supplier Quality Assurance Manual**

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## To Our Valued Suppliers,

At TREMEC quality is not just a benchmark, it is the backbone of our reputation and long-standing success within the automotive industry. As a supplier, your adherence to the principles and requirements outlined in our Supplier Quality Assurance Manual (SQAM) is critical in helping us maintain the highest standards of excellence. The purpose of this Supplier Quality Assurance Manual is to provide an overview of TREMEC's requirements and expectations for quality. Suppliers are required to read and understand the contents of this manual in its entirety. Any questions regarding this document should be directed to your Supplier Quality Engineer or Buyer.

In an industry governed by rigorous global standards such as IATF 16949, VDA and ISO 9001, along with stringent customer-specific requirements, it is imperative that all partners in our supply chain remain fully committed to a quality-first mindset. These standards are not mere guidelines, they are operational imperatives that ensure safety, reliability, and consistency across every product and process. They drive TREMEC and our industry towards continuous improvement, bringing us a step closer to excellence.

TREMEC must supply products of the highest quality to our customers at the right price, at the right time, every time. This cannot be accomplished without a robust supply base that understands TREMEC's expectations and is committed to the same high standards demanded by our customers. By selecting only those suppliers which can fulfill the quality requirements set forth in this manual, can TREMEC remain confident that the materials and services supplied will be world class in quality.

As our partner, your ability to comply with these protocols not only ensures the integrity of our products but also enhances our collective reputation in a competitive global market. It supports sustainability, promotes continuous improvement, and directly influences customer satisfaction and business performance.

We trust that you will continue to uphold the expectations documented in the SQAM with diligence and care. Quality is a shared responsibility, and your role is essential in meeting—and exceeding—the demands of our customers.

Thank you for your unwavering commitment and valued partnership.

Sincerely,  
TREMEC Global Supplier Management

## Introduction

### Application of this manual

This manual shall apply to suppliers of materials and services that are embodied directly or indirectly into the finished product(s) of TREMEC.

The manual forms part of the overall supply agreement between the parties and is integral to the Purchase Order / Agreement with the Supplier.

The scope of this manual is such that it should be used in conjunction with the Automotive Industry Action Group (AIAG) / AIAG/VDA (Verband der Automobilindustrie)/ International Automotive Task Force (IATF) reference manuals including Advanced Planning for Quality Products (APQP).

All Suppliers shall have access to this document and shall follow the policies and procedures set out within this manual and those Reference Manuals listed above. Suppliers will be responsible for procuring the relevant standards and documentation at the latest level.

### Quality System

The manual defines the Quality System that suppliers shall use to guarantee materials and services are supplied in accordance with the Purchase Order(s) or Instruction(s).

The Supplier shall put in place a Quality System that ensures compliance with this manual.

The Supplier's Quality System shall be documented and available for audit by our representatives.

### Supplier's Responsibility

Suppliers are responsible for ensuring compliance with this Manual and Quality Standard set by TREMEC.

These requirements apply to both the Supplier and their Sub-Supplier(s) in relation to work performed against TREMEC Purchase Order(s) or Instruction(s). The supplier shall pass on the requirements of this manual to its supply base and shall be responsible for their Sub-Suppliers' compliance with this Manual.

TREMEC will assume that the requirements of this Manual are understood by the supplier before they accept any Purchase Order(s) or Instruction(s) from TREMEC.

### Company name and references

TREMEC is an acronym for Transmisiones y Equipos Mecánicos S.A. de C.V. and includes by reference TREMEC's Belgian branch and TREMEC Corporation. The specific TREMEC entity for the purposes of the application of this manual shall be the TREMEC entity issuing the applicable Purchase Order and/or the Supply Agreement, as the case may be.

## Instructions and Responsibilities

### 1. Supplier Sourcing

#### 1.1 Global standards

- 1.1.1 TREMEC requires its Suppliers to be certified to the latest version of IATF 16949, VDA or ISO- 9001 Quality Management Systems. It is our goal that all our suppliers base their Quality Management System on the latest revision of IATF 16949.
- 1.1.2 Exceptions to 1.1.1 may be permitted if Global Supplier Management leadership approve the selection of a supplier and certain criteria are met:
  - i) Satisfactory completion of TREMEC's Supplier Quality System Assessment for New Suppliers (TSQSA) with agreement to complete all corrective action findings prior to sourcing completion
  - ii) Sign off on TREMEC's Supplier Quality Assurance Manual and Non-Disclosure Agreement (NDA)
- 1.1.3 TREMEC bases its quality procedures on APQP and PPAP requirements as detailed in the AIAG Reference Manuals. Suppliers are expected to follow these same procedures.
- 1.1.4 Suppliers of parts that are determined to be 'Safety Critical Items' (any systems where unintended behaviors could result in potential safety concern under certain conditions) shall comply with the latest revision of the ISO 26262-1 standard, 'Road vehicles – Functional Safety'
- 1.1.5 With the increased level of technology and communication developed in today's vehicles TREMEC views Cyber Security protection of Intellectual Property and part/component and system protection from external hacking to be paramount. . Certification to ISO 27001 and ISO 21434 will be required if TREMEC deems warranted, due to the nature of part, component or sub-system supplied.

#### 1.2 Approved Suppliers

- 1.2.1 Only suppliers that are approved by TREMEC shall be eligible to supply goods and services. This shall include customer-directed suppliers. Approved suppliers shall be those who are:
  - i) Existing TREMEC suppliers with status 'Green' in TREMEC's Global Approved Supplier List (GASL).
  - ii) New suppliers that have been Qualified and Approved according to TREMEC's requirements.

#### 1.3 Approval of New Suppliers

- 1.3.1 All potential Suppliers are required to complete the "*Supplier General Profile*" questionnaire which is found in Appendices of this manual. To be submitted to the Buyer, SQE/SDE or both.
- 1.3.2 New Suppliers shall be assessed using the '*TREMEC Suppliers' Quality System Assessment for New Suppliers (TSQSA)*'. Suppliers shall be required to attain a score of 80% before they can be added to the Approved Supplier List. TREMEC's TSQSA will be provided by the Buyer or Supplier Development Engineer.
- 1.3.3 All Suppliers will provide their company details and contacts using the '*Supplier Data Form*' supplied by TREMEC's Buyer and once completed remitted to same.
- 1.3.4 New Suppliers will be required to enter into a *Non-Disclosure Agreement (NDA)*. The NDA will be provided to the Supplier by Advanced Purchasing or TREMEC's Buyer. Once the NDA is completed and signed it should be sent to TREMEC's Buyer or

Advanced Purchasing Representative.

- 1.3.5 All Suppliers shall confirm that they have received, understood, and accepted the TREMEC Supplier Quality Assurance Manual by completing and returning the acknowledgement form at the end of this manual the Supplier Development Engineer (SDE) or Buyer.
- 1.3.6 TREMEC reserves the right to audit the Supplier's Quality System and/or Manufacturing processes, even if certified by a third party.

#### **1.4 Continuous Supplier Validation and Performance Monitoring**

- 1.4.1 Suppliers shall be continually assessed by TREMEC and at TREMEC's discretion.
- 1.4.2 A supplier will be monitored for performance minimally one time per year.
  - i) The supplier shall be evaluated on the basis of Quality, Delivery and Commercial Performance. Each of these categories contribute to the overall score account for 40%, 40% and 20% respectively.
  - ii) Once evaluated, the supplier should receive their performance score for the preceding 6 months from their respective TREMEC Buyer. The timeframe for the evaluation period is from January through June and from July through December.
- 1.4.3 "Green" Suppliers remain in good standing and are able to quote new business.
- 1.4.4 "Yellow" Suppliers are required to address the Quality, Delivery or Commercial items that have resulted in their current scores with an approved corrective action plan.
- 1.4.5 "Red" Suppliers also be asked to present an Action Plan and may be placed on New Business Hold (NBH)
- 1.4.6 TREMEC reserves the right to place a supplier on NBH for other reasons such as financial stability etc.

## **2 Prototype Requirements**

### **2.1 Supplier Manufacturing Feasibility Plan**

The Supplier may be required to complete a reduced *Supplier Manufacturing Feasibility Analysis* (Form *TST-F-GSM-DPU-12* as provided by the SDE) with each quotation response that is compliant with the specifications detailed in TREMEC's Request for Quotation (RFQ) – Form *TST-F-GSM-DPU-01* or other formal communication. The '*Supplier Manufacturing Feasibility Analysis*' shall set out the process required to manufacture the part, including details of the equipment, machinery and measuring instruments suitable to complete the operation.

### **2.2 Engineering Specification and 'Special Characteristics'**

The Supplier shall check and confirm that the Engineering Specifications and drawing identify Significant and Critical Characteristics and confirm that drawings referenced in the RFQ and Purchase Order correspond with each other and are consistent with the last information they have been provided by TREMEC.

### **2.3 Prototype Control Plan (PCP)**

Prior to batch manufacturing of prototypes, the Supplier may be asked to develop and submit a '*Prototype Control Plan*' (PCP). The PCP shall define the method used to control Special Characteristics indicated in the drawing(s). This document should be signed by the Supplier and sent to the SDE for review and approval prior to prototypes manufacturing start-up.

## 2.4 Prototype Shipment Documentation

The prototype batch shipment should be accompanied by the following documentation:

- Layout Drawing including drawing number and or part number
  - Inspection results for all prototype parts including all dimensions indicated on the drawing, or whatever was agreed and documented by TREMEC's SDE
  - 100% inspection for the prototype batch where dimensions are identified as 'Critical Characteristics'
  - Metallographic and/or Metallurgic Report as required in the specification
  - Material Test Report(s) / certificates as required in the specification.
- And other documentation indicated in the drawing or by TREMEC SQD/ Engineering.

## 2.5 Traceability

The prototype parts shall be identified numerically, from [1] to [the total number of parts of the batch], cross referenced with the number indicated on the dimensional reports (inspection results). The parts shall also be marked with the batch number and engineering level. These details shall be entered in the following format:

LEVEL – BATCH – CONSECUTIVE/TOTAL Example: AB – 2 – 13/50  
*Where...*

LEVEL Design engineering level used for the manufacturing of the prototype (e.g. AB)

BATCH The batch number of the prototype part purchased during the project's life (e.g.: 2, which means second batch purchased for the same prototype part number).

CONSECUTIVE/TOTAL Consecutive numeric identification according to the total number of parts, which constitute the prototype's batch (e.g.: 13/50, which means: part number 13 of the total 50-part batch purchased).

*Note: In the case of bolts, latches, shims, springs, nuts, pins, etc., where part identification may be difficult, the batch shall be identified (box, bag, etc.) with a tag containing the above-mentioned information. The color of the tag shall differ from batch to batch.*

## 2.6 Prototype Defect

In the event of a non-conformance, which is attributable to the Supplier, a Defective Material Report (DMR) shall be sent to notify the Supplier. The Supplier shall take measures to rectify the batch according to the DMR, and if necessary shall replace the whole batch. The Supplier will submit an 8D Report to the SDE describing the root cause(s) and corrective action(s) to be taken to prevent quality issues recurrences.

## 2.7 False Supplier Report

In the event of a non-conformance where the Supplier's report had confirmed non-conformance, costs incurred by TREMEC in sorting and rectifying the problem including those of any sub-contractor employed by TREMEC to do this task, may be charged to the Supplier.

## 2.8 Ready or “Off the Shelf” parts

Parts that are purchased as “Off the shelf”, for example, proprietary parts supplied through distributors, should be validated by TREMEC. Therefore, the Supplier may be required to send, in addition to documentation described in item 2.4:

- A Part Submission Warrant (PSW) Guarantee for each numbered part supplied by the Original Manufacturer (OEM) validated by the Supplier
- An OEM Control Plan for each part number
- Dimensional reports for 2 parts of each component, inspected at 100%, for all the characteristics of the designs released by TREMEC.
- 100% inspection results for all the parts in the prototype batch, against the dimensions shown on the design, indicated as critical.
- Tests Results against design specifications for each part as required.  
or other documentation as indicated in writing by TREMEC.

## 3 Preparation for Serial Production

### 3.1 Supplier Manufacturing Feasibility Analysis

The Supplier shall send with every quotation, a *Supplier Manufacturing Feasibility Analysis (TST-F-GSM-DPU-12)* as provided by TREMEC’s Supplier Development Engineer for each part according to TREMEC’s Engineering drawing. This shall include an ‘*Operations Flowchart*’ setting out the operations required to manufacture the part including details of equipment, machinery and measuring instruments required for each operation.

### 3.2 APQP Team / APQP Status Report

On receipt of the PO the Supplier shall create an APQP team. The Supplier will receive TREMEC’s Open Issues List (OIL, Document TST-F-GSM-SDE-03) as well as the Program Summary Report (TST-F-GSM-SDE-04) from their TREMEC Supplier Quality representative. APQP status will be focused on addressing the status and timing of the required PPAP documentation to be included along with the Part Submission Warrant (PSW). It is preferred to have the PPAP documentation package and PSW submitted as one electronic file or document. The 18 primary PPAP documents/deliverables are:

- 1) Design Records
- 2) Authorized Engineering Changes
- 3) Customer Engineering Approval
- 4) Design Failure Mode and Effects Analysis (DFMEA)
- 5) Process Flow Diagrams
- 6) Process Failure Mode and Effects Analysis (PFMEA)
- 7) Control Plans
- 8) Measurement System Analysis (MSA)
- 9) Dimensional Results
- 10) Records of Material/Performance Test Results
- 11) Initial Process Study
- 12) Qualified Laboratory Documentation
- 13) Appearance Approval Reports (AAR)
- 14) Sample Production Parts

- 15) Master Sample
- 16) Checking Aids
- 17) Customer Specific Requirements
- 18) Part Submission Warrant

Once the PSW is approved a significant production run will be required to verify production capacity and readiness. This is subject to discussion and agreement but typically requires a production run of 4 to 8 hours.

In addition to the above TREMEC will also require documentation of approved packaging, documented evidence of material uploads into the IMDS and evidence that all customer owned tooling has been properly tagged/labelled.

### 3.3 Design Review

If the Supplier is design responsible, before commencing manufacture the Supplier shall:

- Submit a Design Failure Mode Effect Analysis (DFMEA) to the TREMEC SDE/SQE for approval
- Confirm TREMEC has approved the design and specifications
- Confirm that all open issues created during the Design Review have been closed

### 3.4 Design Verification

If the Supplier is design responsible, the Supplier shall:

- Adhere to TREMEC tests and Pass / Fail Requirements.
- Communicate verification testing criterion and timing plan to TREMEC SDE/SQE

#### Validation plan:

The Design validation (DV) plan is defined by the supplier on the basis of:

- The DFMEA analysis
- The lessons learned.
- This validation plan will list all the testing required:
- To validate the component and ensure the validation of the design.

This validation plan will be reviewed and signed at least by the:

- Quality representative of the supplier
- Engineering representative of the supplier
- Project coordinator of the supplier
- TREMEC Engineering & SDE/SQE

### 3.5 Process Development Plan

On receipt of the purchase order, the Supplier shall work with TREMEC's Buyer and SDE for: tooling, manufacturing / inspection frames, gages and testing equipment in accordance with agreed to timing as prescribed in TREMEC's APQP provided documentation with continuous reporting throughout the development process to PPAP submission.

This process may include the following per SDE/SQE instruction and is captured and monitored through the APQP Process:

- A Process Operations Flowchart (3.5.1)
- A Process Failure Mode Effect Analysis (PFMEA) (3.5.2)
- A Production Control Plan (3.5.3)
- Process sheets, work and inspection Instructions
- Gage repeatability & reproducibility (GR&R) studies or other in accordance with the Measurement Systems Analysis (MSA)
- Capability Studies regarding Critical and/or Significant Characteristics for the Product and/or Process
- Packing Method and Type
- PPAP submittal timetable

### 3.5.1 Process Operations Flowchart

The purpose of the Process Operations Flowchart is to demonstrate that the overall process has the capability and capacity to meet the production requirements. The Operations Flowchart is a tool provided in the TREMEC Run at Rate form TST-F-GSM-SDE-05 and shall be supplied by TREMEC's SDE/SQE. Specific requirements of the *Operations Flowchart should include*:

- The sequence of operations for all the process operations, for example, inspections, transportation, storage, etc.
- The machinery and equipment used in each operation.
- The cycle time taken for each operation.
- Critical machinery shall be identified according to the following: by loads, maintenance requirements, cycle time, capability (Cpk), complexity of Operations and by operator skills
- "Bottle Neck" operations shall be identified and machine capacity studies shall be detailed

### 3.5.2 Process Failure Mode and Effects Analysis (PFMEA)

The Supplier shall provide a PFMEA which complies with the methodology defined in the last revision of the AIAG/VDA reference manual. Characteristic class shall be indicated on the PFMEA and the Control Plan. Specific requirements for TREMEC are set out below:

- Critical Characteristics = Severity on the PFMEA between 9 and 10
- Significant Characteristics = Severity on the PFMEA between 5 and 8 and occurrence between 4 and 10
- DR's, AQC's, PTC's, PQC's and no symbol characteristics = Severity on the PFMEA below 5

#### **Current controls of process prevention and detection**

This section of the PFMEA, shall emphasize the use of SPC (X-R, X-S charts, etc) and the implementation of error-proofing devices, for example: error proofing / Poka Yokes, applicable for Critical and Pass Through Characteristics

Any failure mode with high priority risk shall have recommended actions. The definition of high priority risk must be according to the recommendation of the latest edition of the FMEA (AIAG/VDA) Reference Manual.

### 3.5.3 Production Control Plan

The Supplier shall comply with the Control Plan technique and methodology stated in the AIAG/VDA (APQP & Control Plan) Reference Manual, latest edition, including the use of the official format. Specific TREMEC requirements for the treatment of critical and significant characteristics are as follows:

- Indicate whether a characteristic is special and identify it according to the correct symbol (found in Appendices of this manual)
- All special characteristics are subject to 100% inspection.
- All readings shall be recorded and used to estimate process capability in accordance with table is Section 3.5.4

#### 3.5.3.1 Improvement Plan

When the process is not capable, an improvement plan shall be agreed with the TREMEC SDE/SQE, which might include:

- 100% inspection is required until the process capability meets the requirements
- It is recommended that alternate control methods are used between continuous variables and discrete variables, the purpose of which is:
  - to ensure a 100% compliance of requirements
  - to enable the collection of data, allowing capability studies to improve decision making
- Records shall be kept for each reading when dealing with measuring instruments by means of a continuous variable.  
With discrete variables, the recommendation is to use measuring instruments for attributes, as well as control charts.
- When a process has been demonstrated to be capable, the use of SPC (X-R Charts) must be detailed as the control method for the characteristics in the Production Control Plan

#### 3.5.3.2 Approval of Production Control Plan

The *Production Control Plan* shall be approved by the TREMEC SDE when the Supplier shows capability to control the Special Characteristics.

*Note. Referring to the latest edition APQP & Control Plan (AIAG/VDA) manual for further information*

### 3.5.4 Capability Studies using Statistical Process Control (SPC)

The Supplier shall monitor Special Characteristics using SPC according to AIAG SPC and PPAP Reference Manuals at the latest revision. The Supplier shall comply with the following TREMEC's specific requirements to control the Special Characteristics as detailed below:

**SPECIAL CHARACTERISTICS REQUIREMENTS**

Characteristic	Description	Non-Conformance Could Affect	Capability Requirement (Short Term/PPAP)	Capability Requirement (Long Term)	Control Method
CC*	Critical Characteristic	Safety & Other Regulatory Requirements	Cp ≥2.0, CpK ≥1.67	Cp ≥2.0, CpK ≥1.50	Requirement will depend on customer requirements and will be clarified during Request for Quotation process
SC*	Significant Characteristic	Form, Fit or Function	Cp ≥2.0, CpK ≥1.67	Cp ≥2.0, CpK ≥1.50	SPC (X bar & R)
DR*	Documentation Required	Form, Fit or Function	Cp ≥1.33, CpK ≥1.00	Cp ≥1.33, CpK ≥1.00	SPC (X bar & R)
NO SYMBOL	Standard Characteristic	Form or Fit	Cp ≥1.33, CpK ≥1.00 (When it is required by SDE and depending of nature of characteristic)	Cp ≥1.33, CpK ≥1.00 (When it is required by SDE and depending of nature of characteristic)	Inspection frequency & Control Method in Control Plan depending of preliminary capability study (PPAP) and nature of the characteristic
PTC	Pass Through Characteristic	Vehicle Assembly	Cp ≥1.67, CpK ≥1.33	not applicable	Depends on PTC requirement
AQC	Attribute Quality Characteristic	Function & Durability	Cp ≥1.33, CpK ≥1.00 (When it is required by SDE and depending of nature of characteristic)	not applicable	100% attribute gage inspection with nP Chart
<b>TYPE I ERROR PROOFING:</b> design of part or assembly systems that prevent the defect from occurring					
<b>TYPE II ERROR PROOFING:</b> implementation of poke yoke and/or other controls to identify/reject defective units and prevent them from moving to the next station or end of the line.					

Readings used to perform Capability Studies shall be taken from the PPAP run, and shall include at least 30 samples distributed throughout the run capturing beginning, middle and end of the run.

- If there is doubt in the results or where greater confidence in the Capability Study is required, 100 readings (20 sub-groups, 5 readings each) shall be used.

\* Acceptable manufacturing controls for CC, SC and DR characteristics on materials, heat treatment, coating, destructive testing, cleanliness etc.

<b>Material Properties:</b>		
CC	Hardness Certification per batch	Appropriate batch or heat sampling for destructive testing to be agreed between TREMEC' s responsible SQ&D and supplier
SC		
DR		
<b>Hardness:</b>		
CC	Hardness Certification per batch	Appropriate batch sampling for destructive testing to be agreed between TREMEC' s responsible SQ&D and supplier
SC		
DR		
<b>Porosity:</b>		
CC	First Off/Last Off per shift/Batch	Appropriate batch sampling for destructive testing to be agreed between TREMEC' s responsible SQ&D and supplier
SC	One per shift/Batch	
DR		
<b>Corrosion Coating:</b>		
CC	First Off/Last Off per shift/Batch	Appropriate batch sampling for destructive testing to be agreed between TREMEC' s responsible SQ&D and supplier
SC	One per shift/Batch	
DR		

Where direct measurement of special characteristics is not feasible or impractical, product characteristics may be indirectly controlled through the control of relevant key process input variables (Process characteristics or parameters).

### 3.5.4.1 Annual capability review

- Each year, the capability study of all the Critical Characteristics should be sent to the TREMEC SDE if requested. If the Cpk is below the requirement, the Supplier will provide an 'Improvement Plan' and the parts may be subject to Containment Procedures.
- An annual PSW and a dimensional report for each part supplied should be provided to TREMEC's SDE/SQE for review.

*Note: Refer to the latest edition SPC (AIAG) Manual for further information.*

### 3.5.5 Measuring Systems Analysis

The Supplier shall perform Repeatability and Reproducibility and/or Linearity and/or Bias and/or Stability or other approved MSA on all gages and measuring instruments, used for the measurement of characteristics identified on TREMEC: drawings, Control Plan or defined by the nature of the process. TREMEC specific requirements are:

#### For Special Characteristics

- Studies shall be in force for one year, provided no change is made on the measuring system (Operator, gage or inspection method).
- R&R studies shall comply with MSA (Measurement System Analysis) Methodology, where TREMEC acceptance criterion is  $\leq 20\%$  (when dealing with continuous variables). With discrete variables, criteria provided on the MSA shall be used.
- For characteristics described in Control Plan without any kind of symbology the MSA study shall comply with the Measurement System Analysis Reference Manual Criteria.
- Every time a change is made to the measuring system (Operator, Gage or Inspection Method), the Supplier shall notify and send Reproducibility and Repeatability Studies to the TREMEC SDE.
- Linearity, Bias and Stability studies, shall be made at TREMEC's request depending on the criticality of the component and the measuring systems used.

*Note. Refer to the latest edition of the MSA (AIAG) Manual for further information.*

### 3.5.6 Production Demonstration Run (Run @ Rate)

The Supplier shall perform the Production Demonstration Run to assure that daily capacity required by TREMEC facility is reached. This Run @ Rate will be performed in two stages as prescribed and administered by the SQE/SDE per TST-PR-SDE-03 TREMEC's internal work instruction.

### 3.5.7 Production Parts Approval Process (PPAP)

Suppliers shall comply with the AIAG (latest revision) Production Parts Approval Process (PPAP), this is to:

- 1) Validate that the design information and engineering specifications, are fully understood and applied by the Supplier.
- 2) That the manufacturing process can produce parts that will comply with these requirements during a validation run, as well as during normal production.

### 3.5.8 What Triggers PPAP

PPAP shall be submitted or resubmitted to TREMEC by the Supplier, when one or more of the following cases occur:

- A new product
- Correction of inconsistencies of parts previously submitted with PPAP
- Engineering changes in the design of a product previously submitted with PPAP and approved by TREMEC.
- Changes to the process that was used in the previously approved part
- Tooling: transfers, replacement, updates or repair(s) Change of supply sources for sub-contracted parts, materials or services (eg. raw material, semi-finished parts, heat treatment, coatings, etc.)
- Parts produced in a different location than that previously approved
- Inactive process for more than a year.
- Changes on the inspection / test method for new techniques.
- Modifications to the packing or preservation method (quantity, size, material, labelling, corrosion protection, etc.)
- Updating full layout engineering drawing, when required by the TREMEC facility.
- Change of Supplier's registered name.
- When the SDE considers it to be appropriate.

### 3.5.9 PPAP Submission Levels and Requirements

TREMEC requires all its Suppliers to submit a level 3 PPAP for each component, part or assembly sourced, according to PPAP reference Manual, unless otherwise provided by procedures negotiated between the TREMEC SDE and the Supplier (see chart below).

Item	Requirement	Submittance Level				
		Level 1	Level 2	Level 3	Level 4	Level 5
<b>Product design records</b>						
1	Product Design Records Details of properties of components	R	S	S	*	R
2	Changes to engineering documents (when applicable)	R	S	S	*	R
3	Tremec engineering approval, if required	R	R	S	*	R
4	Design FMEA (if supplier is the owner of the design)	R	R	S	*	R
5	Process flow charts	R	R	S	*	R
6	PFMEA	R	R	S	*	R
7	Dimensional result (5 sample parts @ 100%)	R	S	S	*	R
8	Tests, material, performance results	R	S	S	*	R
9	Initial study of process capability	R	S	S	S	R
10	Measuring System Analysis Study	R	S	S	S	R
11	Laboratory scope Documentation (according to ISO/TS-16949)	R	S	S	*	R
12	Pre-production and Production Control Plan	R	R	S	*	R
<b>Part Submission Warrant (PSW)</b>						
13	Report IMDS Reference Number in the PSW.	S	S	S	S	S
14	Appearance Approval Report	S	S	S	*	R
15	Checklist of bulk material requirements	R	R	S	*	R
16	Product samples (5)	R	S	S	*	R
17	Master sample	R	R	R	*	R
18	Inspection aids	R	S	S	*	R
19	Additional records, when specified by Tremec.	R	S	S	*	R
20	Production demonstration run results (R@R)	R	R	R	*	R
21	Evidence of tooling, Inspection & Testing Devices owned by Tremec or its customers	S	S	S	S	S

S = The Supplier shall submit the designated activity to Tremec as part of the PPAP, and retain a copy on record.

R = The Supplier shall retain a copy and make it available when requested by Tremec.

\* = The Supplier shall retain a record and submit to Tremec on request.

### 3.5.10 International Material Data System (IMDS)

Each supplier is accountable for issuing information on the chemical composition of the materials supplied to TREMEC. This shall be uploaded in the following Web page: [www.mdsystem.com](http://www.mdsystem.com). When uploading details for a part, the TREMEC plant ID numbers are:

- TREMEC Wixom and TREMEC Santiago de Queretaro: 19279
- TREMEC Pedro Escobedo: 9062
- TREMEC Zedelgem: 119085

The Supplier shall send, along with PPAP documentation, details of the part number and the IMDS reference number. It is mandatory for all the automotive industry suppliers to provide such information. Non-compliance to such requirement by the Supplier, shall result in PPAP's rejection.

### 3.5.11 PPAP Validation

PPAP approval requires TREMEC approval of:

- PSW (Part Submission Warrant)

If PPAP is rejected, the Supplier shall make the necessary corrections, agreed upon by both parties, and re-submit samples and documentation.

### 3.5.12 Identification of Shipments Following PPAP Approval

A TREMEC approved PSW (Interim or Full) authorizes Supplier shipment to TREMEC releases. Following PPAP approval, the Supplier shall identify product shipped for the following 90 days or 2 deliveries (if no deliveries are made during the 90 day period) using the completed blue label as provided by the Supplier Development Engineer on all sides of the outer packaging. The measurements suggested for the label are: 11" (279.5 mm) X 8.5" (216 mm) Width x Height. An agreed upon label of PPAP parts + 90 days can also be used if accepted by the SDE and TREMEC's MPL group.

## 3.6 Containment Procedure for Pre-Production

The purpose of this Procedure is to:

- Protect TREMEC from quality non-conformances
- Validate the Production Control Plan
- Document the Supplier efforts to check his process controls during: start-up, ramp up, revisions of manufacturing process, or when the manufacturing run has a gap of 3 months or longer, between one run and another
- Ensure that any quality issues which may arise, are quickly identified, contained and corrected at the Supplier's facilities
- Increase the involvement of the Supplier's senior management

### 3.6.1 Process Validation

The Supplier shall establish a validation process which contains the following elements:

- Identification of the personnel responsible for ensuring the development and implementation of process verification
- Containment exit criteria, that have been agreed with TREMEC SDE
- Set up Containment Stations at the Supplier's factory. Containment Stations shall be off-line and separated, checked independently from the standard manufacturing process and located at the end of such process. Containment stations shall be documented and approved by TREMEC SDE.
- Identify additional inspections, tests and dimensional checking required for Containment Stations based on the Characteristics of the Product and those defined by the nature of the process and/or issues identified during product development and the process
- Set work instructions for Containment Stations and train staff in them
- Establish a reaction plan for a single defect
- Implement an audit process for the Containment, using senior management to ensure the conformance of the Pre-Production Control Plan

A Process Validation (PV) test plan may be required to validate the process impacts on the product. This plan must be signed by:

- Quality representative of the supplier
- Engineering representative of the supplier
- TREMEC Engineering & SQE

### 3.6.2 Pre-Production Control Plan

The Pre-Production Control Plan, is in addition to the PCP (Production Control Plan), consisting of extra controls, inspections, audits, and tests to ensure conformance and capability of manufacturing processes. The plan needs to consider the following:

- Increasing the sample size stated in the Production Control Plan
- Verification of identification requirements
- Verifying the effectiveness of “error-proofing devices” measures
- Immediate implementation of containment
- Immediate implementation of corrective actions (non-negotiable and directed by TREMEC)

#### 3.6.2.1 Documenting the Pre-Production Control Plan

- Document the Pre-Production Control Plan using the format provided on the AIAG/VDA Reference Manuals, and Advanced Product Quality Planning & Control Plan (APQP).
- Document additional inspections, functional tests and dimensional checks required for the Containment Station, or for the Process Check Station using the *Special Characteristics Control Plan*, referenced in AIAG’s Control Plan manual (latest edition)
- Document the work instruction for the Containment Station to ensure standardization
- Document the Control Plan validation suitable for review by TREMEC SDE
- Document problem solving techniques used including but not limited to:
  - Root cause analysis (5 Why analysis)
  - Irreversible corrective actions with breaking points
  - FMEA’s
  - Control Plan updating

### 3.6.3 Containment Period

The duration of the Containment shall be agreed for: a period of time; a quantity of parts set by TREMEC SDE or until the Production Control Plan has been validated, whatever occurs first. If time and quantity have not been specified, Containment shall continue in force through acceleration (“Ramp Up”) or for a period of 90 days, whatever takes place first.

### 3.6.4 Containment Inspection

Containment inspection is mandatory for all product requested during Pre-Production. After Manufacturing, testing and measuring of the Supplier’s facilities have been approved, The TREMEC SDE may remove the need for inspection.

### 3.6.5 Indication of compliance to Pre-production Containment

To indicate compliance with Pre-production Containment requirements, shipments shall be marked in accordance with the agreed upon identifier between TREMEC SDE/SQE and Supplier. This identifier shall be signed by the person responsible for ensuring correct implementation.

### 3.6.6 Exit Criteria – Pre-Production Containment

The Supplier will exit Pre-production Containment after:

- i) The Supplier dispatches the correct number of parts to meet pre-production requirements without any quality issues
- ii) All quality problems have been resolved, and the Process Control Plan has been approved.
- iii) The Production Control Plan has been approved by the TREMEC SDE.

If quality issues are detected during Pre-Production Containment, then Containment shall continue, and implementation of corrective actions reviewed and corrected with validation of effectiveness. Breaking containment will result in the reset of containment activities for an additional 90 days, with the requirement of no further findings in order to facilitate exit of containment. This will be ongoing for each break of containment within each 90-day period.

### 3.6.7 Non-Conforming material shipment - consequences

- Failure to execute the Pre-Production Containment procedure shall result in the Supplier having to go to “Controlled Shipments Level II”.
- Shipments of non-conforming material to TREMEC plants, shall result in the automatic placement of the Supplier in “Controlled Shipments Level II” which is defined later in this manual

## 4 Production Requirements

### 4.1 Revalidation (Re-Submission of PPAP)

On request from the TREMEC Buyer or SDE the Supplier will submit a level 4 PPAP which includes:

- An Engineering Drawing fully marked up
- A level 4 PSW, whose rationale is “Revalidation”.
- Capability Studies of the Special Characteristics and those defined by the nature of the process
- GR&R Studies (Reproducibility and Repeatability), Linearity, Bias, Stability, for the Measuring System used to assess the Special Characteristics and those defined by the nature of the process
- Material Test Certificate(s), as required
- Heat Treatment Certificate(s) as required
- A Certificate for Conformity covering engineering tests as per TREMEC’s Engineering drawing, or as agreed with TREMEC SDE

If the Supplier is providing TREMEC with an assembly containing different components, whose drawings are owned by the Supplier, then additionally the following are required:

- Supplier layout drawing (marked drawing)
- Full dimensional Report for 5 parts
- Sub-supplier Level 4 PSW approved by the Supplier
- Certificate for Compliance with all Supplier Engineering tests (as required)

If the Supplier is providing TREMEC with an “RFU” (Ready for Use) assembly and/or component, and TREMEC owns the drawings of such components and/or semi-finished products, then the Supplier shall add the following to the lists above:

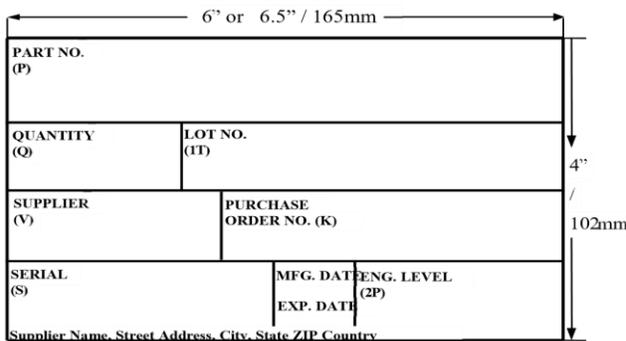
- Level 4 PSW of each component for TREMEC approval

TREMEC will pay for reasonable costs of any Revalidation PPAP subject to the need for revalidation not being caused by the fault of the Supplier.

#### 4.2 Identification of product in each shipment

Labels are to adhere to the specifications as detailed and illustrated in the Automotive Industry Action Group's publication "Shipping/Parts Identification Label Standard" (AIAG-B-10) Version 3, June 2004. For a copy or additional information, contact the Automotive Industry Action Group at (248)-358-3003, 26200 Lahser Road, Suite 200, Southfield, Michigan 48034-7100, or their web site: <http://www.aiag.org/>. Excerpts of AIAG-B-10 are included herein. Areas of the label not specified in AIAG-B-10, are left to TREMEC’s option and are denoted by a (\*). In the event of a conflict, TREMEC’s Supplier Labeling Requirements will take precedence.

#### Shipping/Parts I.D. Label Dimensions (not to scale)



#### AIAG Standard Data: (Four data areas required by AIAG-B-10)

- Part Number
- Quantity
- Supplier Number
- Serial Number

**AIAG Special Data Area:**

TREMEC requires suppliers to provide 6 additional data areas within the portion of the label designated by AIAG-B-10 as the "Special Data Area". These fields are:

- Description
- TREMEC's Purchase Order Number
- TREMEC's Revision Level Designator
- Production Date - for materials which have a shelf life, provide both the production date and expiration date. Individual container/packages within a multi-pack carton shall also be labeled with the expiration date.
- Lot Number
- Supplier Name and Address

**4.2.1 Packaging/Labeling Standards**

TREMEC Supplier Packaging / Labelling Standards in their latest version shall apply (latest revision). Any deviation or customer specific packaging or labelling requirements shall be provided in separate instruction as required. Packaging is a part of the PPAP submission process and must be met. TREMEC's SDE shall provide a copy of the packaging requirements if needed.

**4.3 Quality Requirements in each Production Shipment**

Each production shipment, to the TREMEC plant may include the following documentary evidence as required by the drawing, Production Control Plan or TREMEC SDE.

- Dimensional Report for Special characteristics in accordance with sampling and frequencies set out in the Production Control Plan.
- Material Test Certificate(s)
- Heat Treatment Certificate(s)
- Dimensional Report(s) in accordance with sampling and frequencies set out in the Production Control Plan.
- Certificate of Conformity to Engineering specifications

**4.4 Special Characteristics Requirements in Production for Critical Components****4.4.1 Capability Studies**

The Supplier shall perform capability studies from readings taken from X-R charts and keep records of those X-R charts along with Cp and Cpk calculations. These records shall be made available to TREMEC on request.

**4.4.2 Capability Studies results below the requirements**

If Capability Studies show performance below the requirements, the Supplier shall be subject to the Containment Procedure for Pre-Production. The Supplier will remain in this status until it demonstrates compliance to the requirements.

## 4.5 Deviation Request and Supplier Process Changes

### 4.5.1 Deviation Request

If product is outside of specification, the Supplier shall make a Request for Deviation to TREMEC's Supplier Development Engineer (SDE). The SDE will provide a Request for Deviation form to be completed by the Supplier and returned once completed. The Deviation Request shall clearly describe the reason for such deviation, and an 8D Report shall be enclosed describing the root cause(s) and corrective action(s) to be taken to prevent quality issue recurrences. Requests will be considered by TREMEC SDE and Engineering and disposition of the deviation will be provided to the Supplier as to whether the deviation has been approved and if any conditions apply, in writing.

If the Supplier has already been given the approval of such deviation in writing by TREMEC, then the Supplier shall enclose a copy of such deviation approval inside each container, package, case, bag, etc. before getting shipped to the TREMEC factory.

The Supplier shall not ship any materials to the TREMEC plant without TREMEC's previous authorization.

### 4.5.2 Supplier Process Changes

If a Supplier would like to alter the manufacturing process for a part or assembly that has previously been PPAP'd to a TREMEC facility, then a Supplier Process Change Request must be initiated with communication with the supporting TREMEC SDE/SQE. These changes may include:

- Change of location
- Change of machinery or production lines
- Addition of or incorporation of new machinery or lines
- Movement of production machinery or lines to another location inclusive of an internal move within the same manufacturing facility
- Process changes affecting fit, form or function of the part or assembly
- And sub-supplier changes that encompass any or all of the above.

The Supplier shall contact their respective SDE/SQE and will be sent a TREMEC Supplier Process Change Request form that will have to be completed in full and submitted. This form will be disseminated within TREMEC (Supplier Quality, Quality, Engineering Manufacturing Engineering) for approval or rejection. This decision may also be affected by TREMEC's Customer requirements. Acceptance or rejection will be communicated to the Supplier.

Acceptance of the request will then result in a requirement for PPAP submission for the change in process and will follow all of TREMEC's normal APQP and PPAP processes, which may include validation. At no time can the Supplier move forward with the proposed process change until such time as a PPAP is submitted and a signed warrant is returned to the Supplier.

Implementation of the part or assembly in a TREMEC facility will also require a successful PTR (Production Trial Request) to be performed prior to release of production orders to confirm no adverse or unforeseen effects on the TREMEC assembly processes.

#### 4.6 Defective Material Report (DMR)

A DMR can be issued to the Supplier for the following non-conformances:

- i. **Quality**, including: appearance, dimensionally out of tolerance, finish, contamination, metallurgy, not to drawing, incomplete documentation.
- ii. **Packaging**, including: Incorrect or non-existent labeling, Incorrect or missing packaging, damaged to packaging due to improper handling.
- iii. **Supply issues**, including: over or under shipments, late deliveries.

The TREMEC Department or function raising the DMR is the 'Issuing Entity'.

##### 4.6.1 Potential DMR

The Supplier has a duty to advise TREMEC if it suspects that parts supplied by it may be defective. A Potential DMR occurs when the Supplier notifies TREMEC that he has found an inconsistency with Product(s) that has been shipped or is ready to be shipped to TREMEC.

- a) If the Product(s) has not been entered into the TREMEC ERP system, no DMR issuance is required if:
  - **Replacement** - The Supplier immediately replaces the Product(s) by expedited carriage including airfreight, if it is necessary to avoid production delays.
  - **Deviation Request** - If the non-conformance is due to a characteristic which does not impact the Product's performance, the Supplier can submit a Request for Deviation. The Supplier can only ship the material once he gets the approval of this document. The parts shall not be counted for PPM for the supplier.
- b) If the Product(s) have already been entered into the TREMEC ERP system and can be identified in the Quality Receipt area, the DMR shall be issued and the Product(s) placed in the reject location as "Other". It shall be recorded that the Supplier notified TREMEC of the non-conformance in a timely manner.

If there is a cost involved in accepting the deviated products such as reworked, the cost of this shall be charged to the Supplier.

##### 4.6.2 Quality Alert

When the data and facts of a potential quality issue are not sufficient to justify the DMR, it is the SDE's responsibility to notify the Supplier of such findings via a Quality Alert. The purpose of the Quality Alert is to create awareness, allow an investigation and allow preventive actions to be taken with reference to the quality issue.

It shall be the Supplier's responsibility to post any such Quality Alert at the work station where the product is manufactured. If further investigation generates sufficient objective evidence of a Quality Issue it will stop being a Quality Alert and a DMR will be issued.

##### 4.6.3 DMR Identification, Assessment and Issue

The DMR issuing entity shall define the Non-Conformance caused by the part defect or quality issue in greater detail. The SDE/SQE shall verify that the Supplier was responsible for the Non-Conformance, prior to the DMR issuance and return of parts to the Supplier. The DMR is entered into TREMEC's DMR system.

The following information shall normally be provided in the DMR:

- The part number
- The point in the process where the non-conformance was found for example: customer (customer assembly line or in the field), line (assembly or machining), receipt, accumulated (recurrence) or other (specify)
- The quantity of suspect and/or rejected parts at different points in the supply chain
- Whether the Non-conformance originated from an internal Corrective Action Request
- Did the Supplier notify TREMEC SDE of a possible Non-Conformance previous to material receipt?

To accelerate containment actions, the Issuing Entity shall notify the Supplier via telephone to discuss the immediate actions to be taken. Depending on the complexity of the issue, the investigation and its impact, the Supplier may be involved in both, the identification and verification of the Non-Conformance at the TREMEC plant facilities.

#### **4.6.4 Determination of Quantities for DMR.**

The Defective % is determined by the following formula:

$$\text{Rejected \%} = \text{Quantity Rejected} / \text{Quantity Sampled} \times 100$$

The Inspector/SDE determines and defines the total quantity rejected after having proceeded with the type of disposition given by the Supplier. The quantity rejected after the first disposition, shall be counted for PPM.

#### **4.6.5 DMR & Quality Performance Measurements**

- i. Deviated parts that have not been entered into TREMEC ERP system shall not be counted as non-conformances in assessing supplier performance.
- ii. Reworked or deviated Product(s) shall be counted for PPM only if the supplier did not notify about the issue before they were entered into TREMEC ERP system.
- iii. Only the parts which turn out to be non-conforming or rejected after the assessment has been made, shall be counted for PPM

#### **4.6.6 Recovery Action(s)**

It is the Supplier's responsibility to recommend recovery action(s) no later than 24 hours after notification by DMR. TREMEC's SDE/SQE may suggest to the Supplier the type of recovery action that is most suitable in the circumstances to avoid stoppages on the assembly or machining lines.

If the Supplier does not respond within 24 working hours after the DMR has been issued, TREMEC shall decide upon recovery action(s) and costs incurred shall be itemized in the DMR, submitted to the Supplier and charged to the Supplier's account.

#### **4.6.7 Disposition of the Rejected and Suspect Product(s)**

If the Supplier does not respond within this time, TREMEC may take the following actions:

- a) Request collection by the Supplier within the agreed time period. If the Supplier does not collect within this period TREMEC may dispose of the Product(s) at its own discretion, and costs generated by this shall be charged to the Supplier's account.
- b) Return the Product(s) to the Supplier and shipping costs charged to their account with provision of a Return Material Authorization (RMA) as provided by the Supplier.

- c) With the agreement of the Supplier, dispose of the material at the TREMEC's plant and charge the costs generated to his account.
- d) Rework at TREMEC's plant with TREMEC' own resources or a third party. Costs generated by this shall be itemized, submitted to the Supplier and charged to the Supplier's account.

Where costs are charged to the Supplier's account, the Supplier shall send a Debit Authorization Number.

#### **4.6.8 Product(s) Damaged in Transit**

In the case of material damaged during transportation from the Supplier to the TREMEC plant, costs shall not be charged to the Supplier where TREMEC is responsible for arranging the carrier as determined by the agreed INCO terms.

#### **4.6.9 Identification of Existing DMRs**

The Issuing Entity shall verify that the DMR System does not contain an open and valid DMR before issuing a new DMR. This requires that the following be clearly defined each time a DMR is issued:

- Name and number of supplier
- Defect location
- Part number
- Description of issue or non-conformance

If the non-conformance found is the same (repetitive), as detailed in an existing DMR that is still open, the Quality Inspector shall include the quantity received in the existing DMR and the part number shall be placed in 'Controlled Shipments Level II'.

On receipt of the DMR, the Supplier shall identify the part(s) with an agreed to identifier as agreed to between the Supplier and TREMEC SDE/SQE and/ or an agreed to label if the parts are bulk packaged making reference to "100% Certified Material" and reference to "Controlled Shipments".

#### **4.6.10 Containment Actions**

Once the Supplier has received the DMR, the Supplier shall plan and advise all containment actions within 24 hours:

Containment actions shall apply to existing material at the Supplier's factory, material in transit and material at the TREMEC factory. Containment actions shall follow the 8 Disciplines problem solving method and include startup containment actions as well as the identification method for the following batches.

If the Supplier does not respond within the following 24 working hours after the DMR has been issued, TREMEC may directly implement containment actions, and costs incurred shall be itemized, submitted to the Supplier and charged to the Supplier's account

#### **4.6.11 8 Disciplines (Corrective and Preventive Actions)**

The Supplier shall respond to the Corrective Actions via the DMR system in the 8 Disciplines format section within **20 calendar days** of DMR issue or as required by TREMEC's SDE/SQE.

This shall include:

- 1) The Containment Actions taken
- 2) The Methods used to assess effectiveness of containment actions taken
- 3) Root cause analysis of the problem and methods used
- 4) Corrective and Preventive Actions implemented, including the rationale used to eliminate any potential failure with an error proofing / poke yoke focus
- 5) A clear description of the activities to be developed such as corrective and preventive actions, showing the responsible persons and follow-up dates
- 6) Capability statistical studies subsequent to corrective actions implementation.
- 7) Show how the solution shall be institutionalized in reference to other similar parts or processes
- 8) Dates when the Failure Mode and Effects Analysis (FMEA), process sheets, inspection instructions and Control Plan (if applicable), shall be updated and available for revision by TREMEC SDE/SQE.

For further details see FMEA and APQP Reference Manuals

#### **4.6.12 Incorrect Information in the DMR**

If there is a complaint about some information included in the DMR, the Supplier should advise the TREMEC SDE, who shall verify the details and advise the Supplier of any corrections. Incorrect information in the DMR, shall be corrected by the Issuing Entity on the DMR System.

#### **4.6.13 DMR Appeal Process**

The Supplier can appeal against a DMR issuance in its entirety or against specific information contained in the DMR. To make an appeal the Supplier must follow the following process:

1. The Supplier shall submit objective evidence to the SDE/.SQE demonstrating the reason for the Appeal. Any request to change a DMR, due to an error, shall be made within 5 working days upon DMR issuance.
2. If the SQE and the Supplier do not reach an agreement, and the Supplier wishes to continue with the Appeal, the situation shall be turned to the TREMEC Supplier Development and Quality Engineering Manager for review.

#### **4.6.14 Cost Recovery Process**

The following costs shall be claimable:

- Costs due to additional machining and/or processing of defective parts.
- Costs due to the disassembly of TREMEC's products caused by the Supplier's defective part.
- Costs directly incurred by TREMEC for any line stoppage as a direct result of Supplier fault will be charged back to the Supplier.
- Other costs, directly caused by the non-conformance or quality issue, including but not limited to the following: shipping costs, travel expenses, costs of disassembling defective transmissions, and cost of transmission removal from vehicles caused by the Supplier's defective part(s). The cost of other parts that had to be disassembled and deemed non-recoverable will also be charged and recovered.

Costs shall be charged for the time spent at the hourly rate for staff plus any material costs. In all cases, all these charges shall be documented. TREMEC shall support Cost Recovery claims by providing details of any costs claimed including: man-hours and grade of worker, raw materials used, third-party costs, assembly or machining lines idle time and the impact on the number of transmissions.

#### **4.6.15 Cost Recovery Appeal Process (DMR Section 3)**

The Supplier may appeal against Cost Recovery (DMR Section 3) using the following process:

- The Supplier shall initiate any appeal within the first four weeks upon Cost Recovery issuance (DMR Section 3) by contacting the TREMEC Buyer or SDE/SQE.
- The Supplier shall submit objective evidence regarding an unjustified or imprecise charge. If the Supplier and TREMEC agree on a change, the Cost Recovery Request shall be updated.
- If there is no agreement between TREMEC and the Supplier, within the first four weeks upon Cost Recovery (DMR Section 3) issuance, the Supplier shall then appeal to TREMEC's Supplier Development and Quality Engineering Manager and TREMEC's Purchasing Manager. If a new agreement is reached, then the modified cost shall be charged to the Supplier's account. The appeal process shall be concluded within 6 to 8 weeks upon Cost Recovery issuance (DMR Section 3).

### **4.7 Procedure and Requirements for Controlled Shipments**

#### **4.7.1 General Information**

Controlled Shipments are used in exceptional circumstances when the Supplier's controls are not considered robust enough to isolate non-conforming parts and prevent shipping to TREMEC's factories. Controlled Shipments involves additional inspection at the Supplier's plant and assessment of the effectiveness of primary and secondary inspection processes and implementation of corrective actions to eliminate the initial non-conformance.

There are two levels of Controlled Shipments:

**Controlled Shipments Level I** is an inspection process carried out by the Supplier's personnel at the Supplier's facility, with the aim of preventing shipment of non-conforming material and parts to TREMEC's factories.

**Controlled Shipments Level II** is the same activity as Level I, but with inspection carried out by a third company selected by TREMEC and paid for by the Supplier. In addition, Level II activity can be carried out at the Supplier's plant using his facilities, but with labor provided by a third company assigned by TREMEC. In special cases, TREMEC will lend its facilities to the third company in order to carry out the inspection.

The key points in this process are:

1. Consensus of SDE and TREMEC Buyer that the current Supplier's controls are not robust enough to isolate TREMEC's factory from receiving non-conforming parts or materials.
2. Formal communication with the Supplier about the action (Level I or Level II) to be taken, including the successful exit criterion.

3. For Controlled Shipments Level II, an initial meeting with the Supplier shall be required at TREMEC's Plant and/or conference call between TREMEC and the Supplier, to explain the requirements and responsibilities that both parts shall adopt.
4. For Controlled Shipments Level II, if the inspection is carried out at the Supplier's plant, a detailed description of the inspection area is required.
5. A review plan is required.

#### **4.7.2 Controlled Shipments: Level I or Level II**

The need to implement Control Shipments and to determine the level of Controlled Shipping will be based on one or more of the following factors:

- a) DMR issuance / repetitive DMR issuance
- b) PPM performance
- c) Issue impact and duration
- d) Non-robust processes and capability to produce quality parts consistently
- e) Inadequate containment and/ or solution of non-conformances via the DMR process
- f) Field issue / customer complaint

Controlled Shipments Level II is characterized by situations, where the previous actions implemented by the Supplier have proved to be ineffective, and that they have the prevailing need for a third party to perform required inspection.

#### **4.7.3 Controlled Shipments Level I**

The issue of a DMR puts both the part number and the Supplier in Controlled Shipments Level I status. TREMEC's SDE communicates to the Supplier, in writing, the definition of the issue, the need for additional inspection, the containment activities and the criterion to exit Controlled Shipments Level I.

It shall be the Supplier's responsibility to:

- 1) Immediately establish an inspection area at his factory.
- 2) Begin the inspection activities and deploy the results in a public and visible area in the company.
- 3) Track and locate the previous points in the process, where the non-conforming material have been detected.
- 4) The Supplier leadership team shall meet daily, to check containment and certification results and ensure that the corrective actions taken are being effective, or that a change is required.
- 5) Communicate the results in writing daily regarding the inspection process to the TREMEC's SDE/SQE.
- 6) Request exit from the Controlled Shipments process by sending documentation on performance to the TREMEC's SDE.

The Supplier shall comply with the following requirements as Containment Actions in Controlled Shipments Level I:

- The inspection area shall be appropriately suitable and equipped for the purpose.
- It shall have a well-defined and efficient material flow, including areas clearly identified for the inflow and outflow of material from the area
- No rework or material recovery shall be done in this area

- The inspection area shall be independent from the Supplier's production process.
- The non-conformances, results and actions taken in respect to the containment activity, shall be clearly displayed on the information board
- The charts and results of containment shall be updated and reviewed daily by the Supplier's leadership team
- Solutions to address the non-conformance shall be clearly analyzed and documented with objective evidence
- The inspector designated to perform the containment inspection shall have the corresponding work instructions, quality standards and/ or acceptance samples available.
- Designated inspectors shall be properly trained.

TREMEC shall assess the information against the exit criterion and ensure that any change in Controlled Shipment status is communicated to all the affected entities.

#### **4.7.3.1 Specific Inspection Requirements and Reporting (Level I)**

The out of specification feature(s) or condition must be 100% inspected and certified for, as well as all of the part numbers that have a similar manufacturing process, namely, those that are manufactured utilizing the same equipment/machines or have the same manufacturing concept. TREMEC's SDE together with the Supplier, shall decide which part numbers are affected.

#### **4.7.3.2 Marking**

- All certified parts shall be identified with a yellow dot or agreed to identifier.
- All cases or bags where the certified material is packed shall be identified with a yellow label which reads: "100% Certified Material CS-I" or agreed to label and marking.
- Periodic feedback to be provided to TREMEC's SDE/SQE regarding certification/sorting results. (Acceptance and rejection percentage)
- Compliance with all the requirements of the 8D process.
- The Supplier's Quality Assurance Manager as well as the General Manager, shall submit a completed 8D report per quality issue during the next 20 working days upon DMR issuance or as agreed to with TREMEC's SDE/SQE managing the non-compliance.

#### **4.7.3.3 Exit from Controlled Shipments Level 1**

All these activities shall be kept ongoing until the 8D report is closed by TREMEC's SDE/SQE.

#### **4.7.4 Controlled Shipments Level II**

Failure to comply with any of the above-mentioned activities shall result in the Supplier being placed in "Controlled Shipments Level II". Examples of cause are listed below:

- If TREMEC finds, in some of its facilities, a repetitive issue: same defect in the same part number or any other part number manufactured utilizing a similar Supplier's manufacturing process/ equipment
- Non-compliance to the Product Identification requirements for next shipments after the issuance of the DMR.
- Non-compliance to the tracking of events of the 8D process.
- If any Supplier part provided to TREMEC results in a claim from TREMEC's customer

**4.7.4.1 Requirements of Controlled Shipments Level II**

The following are specific requirements for Controlled Shipments Level II that shall be communicated in writing by the SDE/SQE to the Supplier:

1. Details of the non-conformance
2. The action to be taken
3. The type of inspection required
4. The exit criteria to be achieved in order to leave the Level II condition

**4.7.4.2 Controlled Shipments Level II Meeting**

If required, an initial meeting between TREMEC and the Supplier at TREMEC's facilities will be initiated. Attendees should include: the SDE, Buyer and the Supplier's Quality Manager. The meeting agenda should include:

- a) The objective of the meeting
- b) Issue description
- c) Definition of activities and responsibilities
- d) Set out the details for the Controlled Shipments II Plan.
- e) Define the criteria to terminate and leave the Controlled Shipments II condition.
- f) Define the means and plan of communication.

**4.7.4.3 Controlled Shipments Level II Supplier Actions**

The Supplier is required to complete Entry into Level II Controlled Shipping form and return it with Controlled Shipping Confirmation Reply to the TREMEC SDE/SQE. (The forms shall be provided by TREMEC's SDE/SQE). Furthermore, the Supplier shall: The

1. Issue a Purchase Order to the Third-Party Inspection. The Supplier shall be responsible for all the costs generated by the Third-Party Inspection company, which will carry out the containment activities and/or supervise the Supplier's employees at the Supplier's plant.
2. Provide an adequate space for equipment and necessary tools required to perform the re- inspection activity.
3. Drive Permanent Corrective Actions through an 8D process.

**4.7.4.4 Specific Containment Requirements for Controlled Shipments (Level II)**

1. Information boards at the Supplier sorting and certification location shall show the following information:
  - a) Quality and acceptance standards such as master samples, technical specifications, drawings, etc.
  - b) Action plans based on the non-conformances found
  - c) Process Control Plan, where the non-conformances occurred
  - d) Work Instructions for operators and/or designated inspectors
  - e) Charts showing the number of inconsistencies found, PPM, DMR, etc.
  - f) Quality Charts with trends, if possible, for the Statistical Process Control Charts.
2. Development and adherence to a Communication Plan which shall include:
  - a) The method, format and frequency of communication from the Supplier to TREMEC SDE.
  - b) The issues or non-conformances found during the inspection process
  - c) The criterion for exit from Level II condition which shall:
    - i. Be Specific and Measurable,
    - ii. Focused on non-conformances or quality issues previously detected.

- iii. Include a program to assure that the corrective actions implemented are permanent.

#### **4.7.4.5 Requirements of Controlled Shipments Level II**

200% inspection of the part in which the defect(s) was found. The first 100% inspection shall be done by the Supplier and the second 100% inspection can be performed at:

- i. The Material Supplier's factory using his own resources (facilities, gages, etc.) using a Third-Party Supplier defined by TREMEC, to perform the second 100% certification before being shipped to TREMEC.
- ii. The Facilities of the Third-Party Supplier defined by TREMEC, using the Third Party resources in order to carry out a second 100% certification before being shipped to TREMEC. The Inspection cost shall be agreed upon between the Supplier and the Third-Party Inspector.
- iii. TREMEC's factory, using a Third-Party supplier defined by TREMEC.

#### **4.7.4.6 Specific identification (CS Level II)**

All the inspected and passed product(s) through Controlled Shipments Level II shall be identified with a blue dot by the Supplier, and a green dot by the Third-Party supplier. All the cases or bags where the certified material is packed shall be identified with a green label reading "100% Certified Material CS-II". This activity shall be performed and completed by the Third Party Supplier that was contracted. An agreement between TREMEC SDE/SQE and the Third Party may allow for an alternate identification method.

#### **4.7.4.7 Reporting (Level II)**

- The Supplier will provide regular feedback to the SDE/SQE about the inspection results including acceptance and rejection percentage
- The Supplier shall comply with all the events of the 8D's process and the implied activities
- The General Director, General Manager and Quality Manager along with the respective team from TREMEC and the Third Party shall meet within three working days of the issue being notified by the SDE. The meeting agenda shall include: the reason for the Level II condition, the execution of the Control Shipment Level II and the exit criterion.
- The same people on behalf of the Supplier shall submit the 8D's Complete Report about the quality issue solution within 15 working days of the Procedure for Controlled Shipments Level II being formalized
- The Supplier shall continue all the activities until the 8D report is closed by the TREMEC's SDE/SQE

While the Supplier is in the Controlled Shipments Level II status, they shall be placed in "NEW BUSINESS HOLD" until they exit such status and the 8D report is closed by the TREMEC's SDE/SQE.

Failure to comply with any of the above-mentioned activities, shall cause the Supplier to be replaced and deleted from the "TREMEC's Global Approved Suppliers List".

## 5.0 GLOBAL TOOLING GUIDELINES

The purpose of this section is to set provide guidelines for Supplier's understanding of TREMEC policy, objectives and procedures with regards to Tooling, Machinery, Test Equipment located at Supplier's facility(s) and Owned by TREMEC or TREMEC's Customers.

### 5.1 TOOLING ADMINISTRATIVE ISSUES

- All Tools, machinery, jigs/fixtures, test or inspection equipment belonging to TREMEC or TREMEC's Customer fall under these guidelines
- Dedicated tools can only be used for TREMEC and / or Customer specific products, unless prior written tooling usage agreement is obtained from TREMEC's Global Supply Management Director. Customer requirements for both Production and Service parts must be considered priority when determining the usage agreement
- Tooling used for prototypes, which will be used later to produce production parts, will be treated as normal production tooling
- Unique computer hardware / software required directly for the production or gauging of the part is considered part of dedicated tooling and shall become the property of TREMEC or their customers
- The Tooling Purchase Order / Tooling Contract will provide the basis and definition for tooling ownership, costs, and any special maintenance requirements or other negotiated items and payment schedules
- Invoices exceeding the Tooling Purchase Order or for costs not included within the Tooling Purchase Order will not be honored. Tooling Changes/Modifications requested by TREMEC are to be quoted to your Purchasing Contact. When accepted a Purchase Order Amendment or new Purchase Order will be issued authorizing payment(s)
- A TREMEC Tooling Breakdown Form for tools, fixtures, gauges, or equipment must be completed by the Supplier before receipt of the Purchase Order (PO). This may be a TREMEC format or Customer format to be completed by the Supplier and returned to the TREMEC Buyer.
- Once a tool, fixture, gauge or equipment has been procured by the Supplier, it is the Supplier's responsibility to work with the Supplier Development or Quality Engineer to tag the tool, gauge, fixture or piece of equipment with a tag supplied by TREMEC. The Supplier will work with the Supplier Development Engineer to permanently scribe the provided Equipment Number and permanently affix the tag. Pictures and information as required will be requested to be completed and submitted to TREMEC's Supplier Development/Quality Engineer. This submission will have to be provided at time of PPAP submission and be approved by TREMEC to recoup any outstanding tooling, fixture, gauge, or equipment monies.

## 5.2 NEW PART TOOLING PROOF / TRYOUT

- Suppliers are responsible to perform first piece verification for a Tool Check / Tryout prior to production use. Tool Tryout process is applicable for New or Re-Worked Tools that affect Form, Fit or Function of the part being produced. The Supplier must resubmit PPAP based on requirements and retain the first part(s) for TREMEC inspection / audit and verification for final payment approval.

## 5.3 RESPONSIBILITY

- Suppliers are responsible for the quality and maintenance of tooling in their possession for the life of the program, both Production and Service Requirements
- Periodic maintenance programs are to be conducted. Documentation, checklists, Dimensional Reports should be retained. A Report shall be provided to the TREMEC buyer, in writing, outlining the work performed, the condition of the tooling and remaining tool life estimated in number of the parts to be produced against original agreed to tool life expectancy. This should occur every 3, 6 or 12 months in accordance to the agreement made with the SDE/TREMEC's Buyer
- Supplier is responsible for safekeeping and proper use, and may be liable if/when tooling deficiencies are detected, subject to terms of the Purchase Order
- Supplier must promptly report any tooling loss, damage or destruction to TREMEC's Buyer
- Tooling is not to be modified, moved, sold, or disposed of without written permission of TREMEC Purchasing. However, should tooling need to be relocated (either from one location to another or from one Supplier to another), the original Supplier is required to keep the tooling in PPAP approved condition. The Supplier is responsible to assure proper and safe packaging/crating to protect tooling for the transit
- The Supplier must consult with TREMEC before scrapping or reworking production tooling to a new design level. A Final Production Run of parts may be required prior to disposition of Tooling and must be agreed with TREMEC's Purchasing.

## 5.4 ACCOUNTABILITY

- Tooling must be made available for return to TREMEC or the customer upon request or contract completion/termination inclusive of Service requirements. Tool and Die Set-up Sheet(s) when applicable are considered part of the Tool/Die and to be available for Audit or Return
- The Supplier must maintain a Record System to document expenditures, Maintenance Records for TREMEC and TREMEC Customer owned tooling

## 5.5 TREMEC TOOLING AUDITS

- TREMEC shall have access to all tooling referenced in the Tooling Purchase Order and Tooling designs upon request and are all subject to audit. In the event TREMEC audits the Supplier's tooling cost, it will be necessary to make available supporting documents associated with the Tooling Purchase Order(s) and amendments selected for audit.
- Condition of Tooling and Maintenance Records are also subject to audit continued maintenance

**5.6 TOOLING OWNERSHIP**

- Tooling purchased by TREMEC is the property of TREMEC or their customer(s) and held by suppliers on a bailment basis pursuant to TREMEC’s Standard Purchasing Terms and Conditions

**6 Form of Agreement – Supplier Quality Assurance Manual**

This agreement will be incorporated into all purchase orders issued by TREMEC and/or the supply contracts made between the Parties subject to express exception and any deviations noted in this document.

**The Parties**

<b>TREMEC (SQ Manager or Designee)</b>	<b>Supplier Name</b>
Address	Address
Authorized Signature	Authorized Signature
Printed Name	Printed Name
Title:	Title:
Date:	Date:

## 7 Document Control

### Revision History

Revision Level	Revision Date	Changes Made	Approval
10.0	9 July 2018	Initial release of document	Mark Meisel, Supply Chain Manager
10.1	17 July 2018	Section 3.5.4 revised: Capabilities Studies Using Statistical Control (SPC)	Mark Meisel, Supply Chain Manager
10.2	30 July 2018	Document Control section added	Daniel Hearsch
10.3	31 August 2025	<p>Added Sections 1.1.1, 1.1.2 to Section 1 Supplier Sourcing – Global Standards</p> <p>Revised Section 2.1 Prototype Supplier Manufacturing Feasibility Plan</p> <p>Revised Section 2.3 Prototype Control Plan (PCP) – from a requirement to a potential requirement as agreed upon with the SDE</p> <p>Revised Section 2.8 Ready or Off the Shelf Parts removing mandatory requirement to submit a number of listed documents and replaced with “may be asked to submit”</p> <p>Removed Section 2.9 PSWs for Ready to use Assemblies – removed the requirement for providing a PSW</p> <p>Revised Section 3.2 to reference TREMEC’s APQP Supplier Reporting Template which must be used. Added reference that 2 Run @ Rates will be required to be performed and a packaging document will to be completed and approved as part of PPAP</p> <p>Revised Section 3.5 Product Development Plan to coincide with utilization of the APQP Supplier Reporting Template</p> <p>Revised Section 3.5.1 to include reference to Operations Flow Chart which appears in TREMEC’s Run @ Rate form</p> <p>Addition made to Section 3.5.4.1 – Annual Capability Review. Added reference to a requirement to submit an annual PSW warrant and dimensional report</p> <p>Revised Section 3.5.6 Production Demonstration Run (Run @ Rate) outlining that Run @ Rate will be conducted in 2 stages</p> <p>Revised Section 3.5.12 – Identification of Shipments after PPAP Approval. Added reference to an alternate shipping label allowance if agreed to by TREMEC’s SDE and/ or MPL Representative</p> <p>Revised Section 3.6.5 - Indication of compliance to Pre-production Containment to include an agreed upon identifier of between SDE/SQE and Supplier for contained certified product</p> <p>Added statement to Section 4.6.3 – DMR Identification Assessment and Issue. Referenced that a DMR will be entered into TREMEC’s internal DMR system</p> <p>Addition to Section 4.6.7 Disposition of Rejected or Suspect Product outlining an additional action TREMEC could take by returning product to Supplier and recovering costs once RMA is provided</p>	Damir Valic

Revision Level	Revision Date	Changes Made	Approval
10.3	31 August 2025	<p>Revised Section 4.6.9 – Identification of Existing DMRs to allow for an agreed to identifier for non-conforming parts between SDE/SQE and Supplier</p> <p>Altered the requirement to complete 8D in TREMEC’s DMR system to 20 calendar days from 10 or as required by the SDE/SQE in Section 4.6.11</p> <p>Revised Section 4.6.14 – Cost Recovery Process to include additional costs Suppliers would be liable for due to non-conforming parts or assemblies</p> <p>Section 4.6.15 – Cost Recovery Appeal Process – Removed reference to Third Party Arbitration if agreement cannot be reached. Changed objection timeframe to 4 weeks from 3 and completion of Cost Recovery period to 6-8 weeks to coincide with the DMR and 8D Processes</p> <p>Section 4.7.2 – Controlled Shipments Level I or II - Removed reference to formation of an Assessment Team</p> <p>Revised Section 4.7.4.6 – Specific Identification (CS Level II) – Added that identification of certified parts and dunnage may be agreed to by the SDE/SWE and the Third Party Supplier conducting CS Level II</p> <p>Removed Section 4.8 – Supplier Global Performance Monitoring and supplemented this in Section 1.4</p> <p>Added Tool Tagging responsibility and requirements to Section 5.1</p> <p>Removed Sections 6, 7 and 8 respectively – Packaging and Label Standards, References and TREMEC Terms and Global Equivalences and updated the numbering system</p>	Damir Valic