DAF – PACCAR Inc. for Suppliers (Tier$_n$)

Global Supplier Manual - Appendix M

extracted from **DAF PACCAR Inc. CSR IATF 16949:2016 - January 2018**

1 Scope of this document

The scope of this document is to ensure compliance to customer requirement by sub-suppliers of SMP Automotive who are supplying for any DAF project. This document is listing requirements for these suppliers in addition to standard IATF 16949 requirements and in addition to standard SMP requirements.

2 Responsibility

Suppliers who are supplier for SMP of a component for a DAF product shall meet all requirements listed in this document during the whole project lifetime. This includes but not limited to:

- Regularly check for updates of this document on www.smp-automotive.com
- Ensure availability and awareness of related DAF standards and requirements mentioned in this document
- Ensure requirements are met in their supply chain

3 Contingency plans

These plans are to be kept up to date and can be requested by PACCAR / SMP whenever applicable.

4 Measurement systems analysis

Use the AIAG Measurement Systems Analysis manual for guidance.

5 External laboratory

Where PACCAR specifies specific test laboratories, they will be included in the controlling engineering specification. Otherwise, the supplier is responsible for qualifying their internal or external inspection and test laboratories. Results may be required for submission with the PPAP package.

6 Customer Supplemental

Effectiveness of training must be measured. Example of tools to accomplish requirement are MSAs on inspectors, hands-on testing, and measurement of individual quality performance. PACCAR endorses Six Sigma, Design for Six Sigma, and Kaizen/Lean methodologies.

7 Records retention

PACCAR requires a retention of seven years after End of Production and/or Service Life of product if Government regulations and/or Safety Critical Parts are involved, regardless of part usage life. These requirements do not supersede any government retention mandates.

8 Engineering specifications

Special Processes are to be monitored as required by PACCAR requirements. PACCAR reserves the right to request evidence of monitoring for any reason. Special processes include, but are not limited to: heat treat, coating, plating, adhesive application, and welding.

9 Customer designated Special Characteristics

PACCAR Engineering defines the features that are designated as Special Characteristics on the drawing for PACCAR proprietary designs.

Many forms of additional process controls might be appropriate for a given Special Characteristic. Typically, the specific type of additional process control depends on the following:

- Capability of the process. The goal of capability analysis is to ensure that a process is capable of meeting customer specifications. The use of capability statistics (Ppk) to make that assessment is required.
- Potential severity of the consequence associated with a nonconforming characteristic
- Type of Special Characteristic (significant or critical)
- Specific information about the characteristic itself (attribute or variable)

10 Special Characteristics

PACCAR classification of special Characteristics should be used. Suppliers may use their own symbols on their drawings but must include them on PFMEAs and Control Plans.

Table 1 — Supplier capability requirements

Characteristic	Symbol	Capability requirement	Reaction plan requirements	Control plan	Approvals
Critical		Ppk ≥ 1,67	If specified capability level cannot be achieved, 100% inspection is required. Control plans must specify suitable controls to prevent further processing and/or delivery of nonconforming product.	Critical Characteristics may require specific producer, assembly, shipping, maintenance, or monitoring action and shall be addressed on a control plan. Critical characteristics shall be uniquely identified in all associated documentation, such as specifications, manufacturing drawings, control plan, and so forth.	Quality control plans shall be approved for CCs by SQA (external) or Quality (internal)
Significant		Ppk ≥ 1,33	If specified capability level cannot be achieved, 100% inspection is required. Control plans must specify suitable controls to prevent further processing and/or delivery of nonconforming product.	Significant Characteristics: Quality planning actions shall be addressed on a control plan. Significant characteristics shall be uniquely identified in all associated supplier manufacturing documentation, such as specifications, drawings, control plan, and so forth.	Quality control plans shall be approved for SCs by SQA (external) or Quality (internal)
Unmarked	(none)	Ppk ≥ 1,00	An unmarked characteristic feature shall not be construed to imply that exceeding any tolerances is permitted; only that special process controls may not be required.	Exceeding tolerances shall be addressed in a control plan when required.	Quality control plans shall be approved by SQA (external) or Quality (internal)

11 Property belonging to Customers or External providers

See Terms & Conditions of Tooling Orders and Tooling Agreements.

12 Product approval process

PACCAR requires approval to the most current AIAG edition of PPAP manual - Truck section.

13 Total productive maintenance

The supplier must have a documented system for preventive maintenance (PM). This includes a timely review of planned and unplanned maintenance activities and a documented action plan to address any backlog. Action plans are to be included in the Management Review process. The timeliness and effectiveness of PM must be demonstrated when requested.

14 Identification and traceability supplemental

Where appropriate, the organization shall identify the product by suitable means throughout product realization. The organization shall identify the product status with respect to monitoring and measurement requirements. Where traceability is a requirement, the organization shall control and record the unique identification of the product.

15 Layout inspection and functional testing

Suppliers shall complete annual validation in order to demonstrate continued adherence to proper engineering levels and performance to design intent. This annual requirement must be documented on the supplier's Control Plan. Suppliers are not required to submit annual packages unless requested by PACCAR / SMP.
The annual validation may include a full PPAP submission or selected elements of the submission. In no case should any of the documents submitted be more than one-year-old. In all cases the supplier shall review their files annually to ensure they are current.

16 Appearance items

Where the manufacturing processes or environment could affect the appearance of a class A or B surface, the organization must implement process controls and measures to prevent defects identified in the FMEA and control plan.

17 Monitoring and measurement of manufacturing processes

The organization shall maintain manufacturing process capability or performance as specified by the customer part approval process requirements. The plans shall be reviewed with and approved by the customer (SMP) when so required.

18 Required Problem Solving

A containment response is due within 24 hours of notification, and short term corrective actions are due in three days. Long-term corrective action is due in 10 days unless an extension is approved by Quality. (Referred to as 24/3/10 plan). Corrective actions must be tracked and closed in less than 30 days or by the SQA approved deadline.

19 Change log

Revision	Date	Description
1	20.01.2022	first issue