#### **SUMITOMO ELECTRIC BORDNETZE**

# PPA procedure of purchased parts – Guideline for suppliers

Grzegorz Musiałowski Sumitomo Electric Bordnetze SE 31.03.2022

- 1. Production proces and product approval (PPA)
- 2. Initiation of the PPA procedure
- 3. PPA deliverables/Scope of documentation
- 4. BMG Additional requirements of the VW Group
  - 1. BMG for single components
  - 2. BMG for assembly system Antennas
- 5. Releases from other companies
- 6. PPA procedure of ZSBs
- 7. IMDS Declaration of constituens materials
- 8. Material Quality Verification VW 52000
- 9. Result of PPA procedure
- 10. Retention periods
- 11. Requalification

# **Production process and product approval (PPA)**



- 1. The PPA procedure at SEBN group occures on the basis of **VDA 2**, **edition from April 2020**.
- 2. The supplier is under an obligation to present the documents agreed with SEBN concerning PPA procedure (scope and content) including free sample parts.
- 3. The PPA procedure described in the VDA 2 aims at a full release (internal and at the customer) of a product including the associated production process for series production.

Internal - independently of the PPA procedure towards SEBN, the supplier carries out an internal PPA procedure and documents the results. Thereby, the supplier executes the deliverables according to the requirements in Table 1.

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# **Initiation of the PPA procedure**

The PPA procedure is initiated for:

- 1. New parts
- 2. Changes to products
- 3. Re-use

Use of lines, machines, tools, cavities and nests after 12 or more months of standstill/ non-use for the specific product.

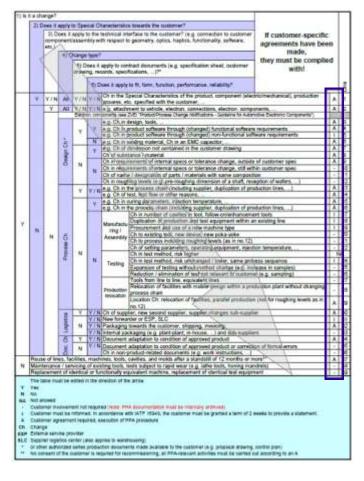
4. Customer-specific agreements (e.g. requalification)

In case of changes to products the initiation towards SEBN is carried out according to the Trigger Matrix (Appendix 8, VDA 2) or SEBN specific agreements.

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# **Initiation of the PPA procedure**

#### Decision options of the trigger matrix



— = Customer involvement not required

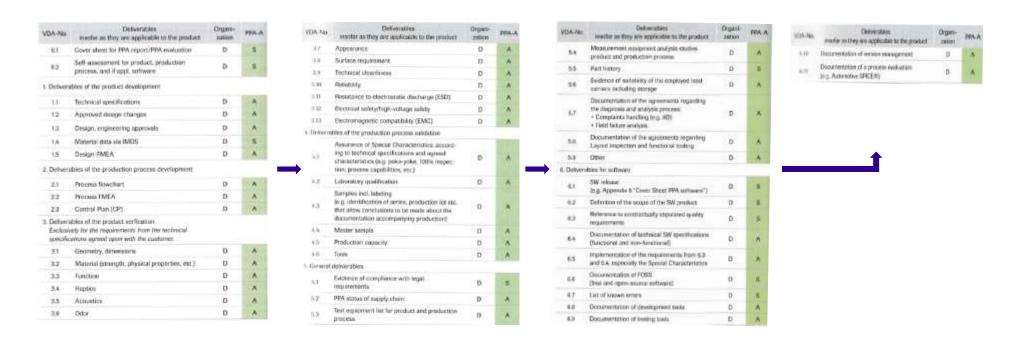
(Note: PPA documentation must be internally archived)

I = Customer must be informed

In accordance with IATF 16949, the customer must be granted a term of 2 weeks to provide a statement.

A = Customer agreement required, execution of PPA procedure

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#### PPA-A PPA Agreement

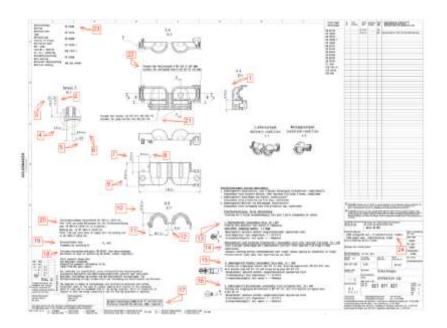
- **S** Submission to customer
- If applicable: Execution, documentation, and archiving by the organization (if appl. for inspection by the customer)
- A All submission items that go beyond the minimum scope must be agreed upon between the organization and the customer in the PPA agreement.

#### Assignment to SEBN material groups

	Deliverables insofar as they are applicable to		Material group 910 Terminals, spring pin, cable socket, ring cable socket, etc.	Material group 920 Connectors, flat connector housing, relay adapter, fuse holder, coupling connectors, adapters, fuse boxes, etc. electronic components: control moduls, relays, etc.	Material group 930 Grommets, seals, single wire sealing, etc.	Material group 940 Corrugated tube, windscreen water pipes, plastic pipes, protective tubing, distributor, etc.	Material group 950 Foam tubes, etc.	Material group 960 Adhesive tapes, identification tapes, foam strips, etc.	Material group 970 Wires, twisted wires, etc.	Material group 980 Antenna wires, Amec wires, ZSB-airbag wire harnesses, ABS sensor wires, etc.	Material group 990 Protective caps, brackets, security strips, fuse boxes, cable ties, cable feeds, clips, heat protection mats, heat- shrink tubes, screws, washer, fuses, etc. electronics components: control moduls, relays, etc.
VDA no.	the product  Cover sheet for PPA report and PPA evaluation	Comments	s	s	s	s	s	s	s	s	s
0.2	Self-assessment for product, production		s	s	s	s	s	s	s	s	s
	process, and if appl. Software										
1.1	Technical specifications	Customer/OEM drawing or manufacturer drawing	S	S	S	S	S	S	S	S	S
1.3	Design, engineering approvals	Technical engineering approval (BMG) if according to the drawing required	s	s	s	s	s	s	s	s	s
1.4	Material data via IMDS	The IMDS no. must be entered on the cover sheet of the PPA report and sent to IMDS ID no. 4244	s	s	s	s	s	s	s	s	s
3.1	Geometry, dimensions	Test results	s	s	s	s	s	s	s	s	s
3.2	Material (strength, physical properties, etc.)	Inspection certificate/Material certificate	s	s	s	S	s	s	s	s	S
3.3	Function	Test results	s	s	s	S	s	s	s	s	s
4.3	Samples including labeling	Quantity according to the agreement and free of charge	s	s	s	s	s	s	s	s	s
5.1	Evidence of compliance with legal requirements	(e.g. Current certificates/country-specific authorization concerning environment, safety, recycling, etc.)	s	s	s	s	s	s	s	s	S
5.2	PPA status of supply chain	According to the LAH.000.971 as an evidence for the PPA status in the supply chain for <b>delivered ZSBs</b> (e.g. WWL_ABS, airbags or antennas), all components must be listed in a material list according to the VW drawing with the release status from sub-supplier	s	-	-	s	-	-	-	s	s
5.5	Part history	Documentation of all changes to the product and production process	s	s	s	s	s	s	s	s	s
5.8	Documentation of the agreements regarding requalification	Every 3 years the VDA 2 cover sheet with reference to the requalification must be sent to SEBN, evidence must be archived at supplier and may not be older than 3 years (e.g. data of incoming goods inspection, product audits and series production tests). Upon request, the evidence of conformity must be submitted to SEBN as well.  D/TLD parts – the requalification must be conducted every 12 months	s	s	S	S	s	S	S	s	S
	Other: BMG concerning basic manufactured cable (BK)		-	-	-	-	-	-	-	s	-
1	Certificate concerning flammability according to the TL 1010	Applies if required according to the drawing- the frequency is determined by the customer/OEM	s	s	s	s	s	s	s	s	s
5.9	Microsection catalogue	Contains: (terminal part number and manufacturer, wire cross section and type, tool number). Microsection may not be older than 6 months	s	-	-	-	-	-	-	s	-
	Technical specification concerning unwind strength and adhesive strength, etc.	Concerns only tapes	-	-	-	-	-	s	-	-	-

#### Drawing for PPA procedure – Additional requirements

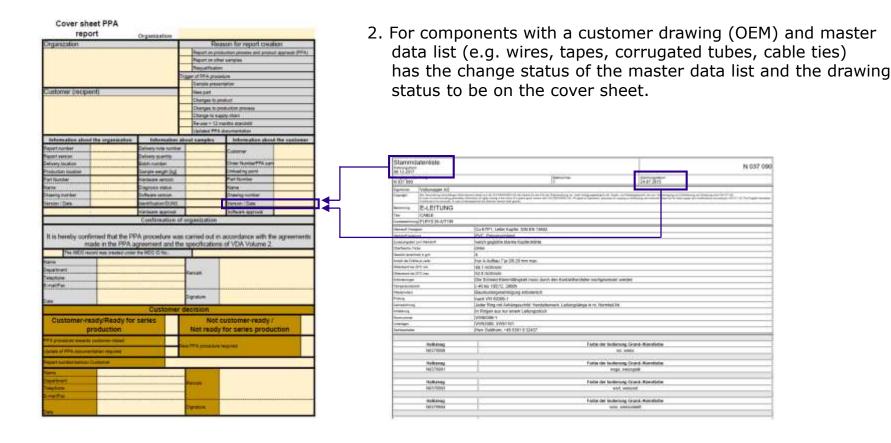
- 1. The basis for the PPA procedure at SEBN group is latest released customer drawing of the VW group. PPA procedure for parts without customer part number is allowed with base upon drawing which is agreed between SEBN and supplier (e.g. airbag or antennas).
- 2. The drawing including positoned grounds is to attach to the PPA documentation (examples below).



3. All requirements specified in the drawing (dimensions/markings) must be compared in the PPA documentation with the "specification-actual" values.

#### Cover sheet for PPA – Additional requirements

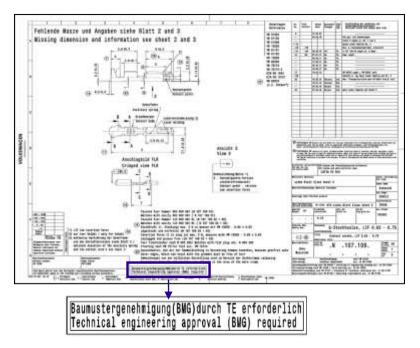
1. According to the quality requirements for wiring harnesses LAH 000.971 the DUNS number of the respective production location named in the BMG and PPA documentation must be identical.

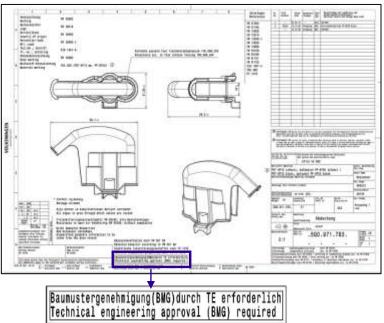


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#### BMG for single components

- 1. For all components of a drawing that are marked as subject to technical engineering approval has a technical engineering approval (BMG) to be issued by the technical development (TD) of the group brand.
- 2. The BMG is issued for the respective production location. If the same component is manufactured at different production locations the BMG must be issued for each location.





#### BMG for single components

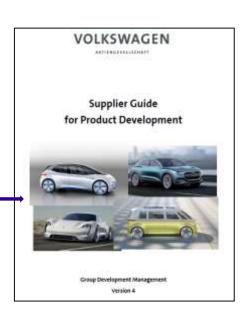
#### When a new BMG is required?

	Yes	No
technical change of component	х	
change of material	х	
change of manufacturer marking	Х	
relocation of tool	х	
change of manufacturing location	х	
tool duplication/new tool	х	
change of production process (e.g. duplication of production lines, adjustment from manual to fully automated process)	x	
change of software	x	
change of supplier (new second supplier, supplier changes the sub-supplier)	x	
text changes on the drawing		Х
change of color (e.g. new wire color is added to the drawing)		x

The examples mentioned when a new BMG is required based on the Supplier Guide for Product Development, which describes the requirements of the VW Group concerning the BMG.

#### Supplier Guide for Product Development 2.3.1 Group approvals 1 a - Technical engineering approval (BMG) In order to verify that these components are suitable for use in the vehicle, build samples are prepared, which are checked by the appropriate Development divisions. Following successful testing, a technical engineering approval is issued by the responsible department. Basic conditions The technical engineering approval is issued by the appropriate Development division. The decision to issue this approval is based on build samples manufactured under production conditions using production tools. The technical engineering approval is only issued after the appropriate department has conducted testing with positive results, taking into consideration laboratory examinations that may be required. If laboratory examinations are required, the departments work closely together with the Volkswagen Group Materials Laboratory (see also section 2.8 "Materials-related processes and requirements") The technical engineering approval remains valid as long as none of the properties present at the time of the approval examinations are changed. Such properties include dimensions, material, manufacturer, markings, manufacturing processes, place of manufacture, equipment, tools, and software. The supplier is responsible for complying with the approved model phase. ☐ The supplier must inform the appropriate departments in Procurement and Development before making changes to the component. The primary developer then decides, based on the indicated changes, whether a repeat of the build sample

inspection is necessary for the issuance of the technical engineering approval and, if

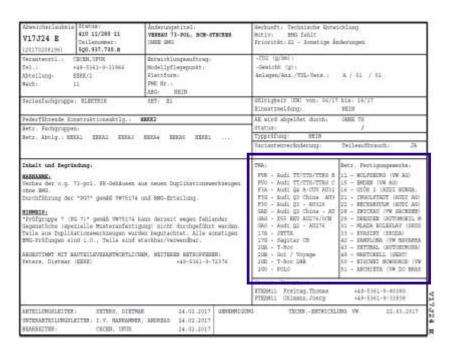


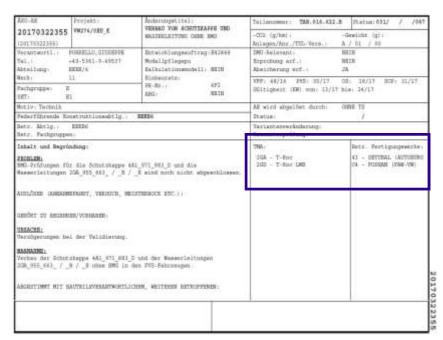
so, which test scopes are required.

#### BMG for single components

1. For the usage of components with a missing BMG is a permission of deviation (AWE) necessary. The supplier is under an obligation to request the AWE at the VW group development (component developer).

#### AWE examples:





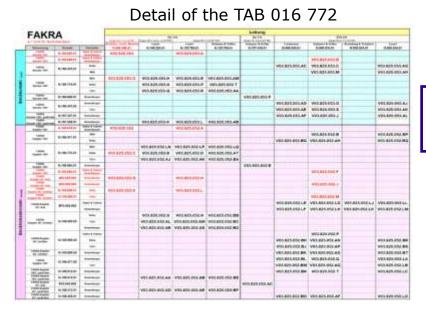
2. The AWE must contain the affected projects at SEBN.

#### BMG for assembly system - Antennas

- 1. According to the LAH.000.971 (Quality requirements for wiring harnesses) for release process of antennas the supplier is obliged to submit the BMG for assembly system.
- 2. The requirements regarding the BMG for assembly system are described in the following specifications and named as **basic manufactured cable (BK)**:
  - > LAH V03 825 Manufactured Coaxial Cables,
  - > LAH V03 825 D Manufactured HSD and HSDe cables,
  - > LAH V03 825 E Manufactured cables for 1000 BASE-T1 Ethernet.
- 3. Basis manufactured cable (BK) consists of assembly of two components: **wire+terminal\***\*In order to obtain the BMG for BK, the BMG and the release of the two standard parts must be first available at the supplier.
  - ➤ The BMG (V03...) issued for basic manufactured cables (BK) replaces the BMG and initial sample release of the two single components (wire and terminal) of the associated basic assembly.
  - ➤ Other single components shown on the antenna drawing, such as housings, adhesive tapes, cable ties, shrink tubes, etc., must be sampled by antenna manufacturer in accordance with VDA 2. The same regulation applies to the wires and terminals which have no relation to the basic assembly (there is no V03... number).
- 4. The changes (e.g. new wire or terminal supplier, etc.) must be evaluated by the antenna manufacturer in accordance with VDA 2 and reported to SEBN. The scope of the PPA procedure must be agreed with SEBN.

#### BMG for assembly system - Antennas

5. The combinations for based manufactured cables (BK) are specified via **V-number** and defined in the **TAB 016 772**.



V-number = part number and wire supplier + part number and terminal supplier

6. In case of additions/changes to the TAB (e.g. new wire), the releases of the BK samples already granted are retained.

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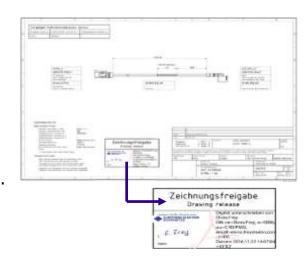
# Releases from other companies

- 1. Sumitomo Electric Bordnetze Group accepts the following releases:
  - > all releases of the plants of SEBN Group,
  - > all releases of the plants of VW Group (VW, Audi, Seat, Skoda, Porsche, etc.),
  - > all releases from other wire harness manufactureres (e.g. Dräxlmaier, Kromberg&Schubert, Fujikura, Leoni, etc.).
- 2. Concerning releases from other companies, the cover sheet (BeOn or VDA 2 form) including BMG (if required) must be submitted to SEBN. In addition, the IMDS data must be sent to IMDS no. 4244 (Sumitomo Electric Bordeze SE).
- 3. The releases must based on latest approved customer drawing of the VW Group.
  Releases for parts without VW Group number (e.g. single components of ZSBs or ZSBs) must based on latest approved drawing agreed between SEBN and supplier.
- 4. The DUNS number of the relevant production location in the BMG and PPA documentation must be identical.
- 5. In exceptional cases, SEBN reserves the right to use its own PPA procedure.

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#### 1. ZSBs with VW number

- > The PPA procedure occurs based on the latest released VW Group drawing,
- When the ZSB is subject to technical engineering approval (BMG), the BMG has to be presented,
- For the usage of ZSBs with a missing BMG or release is a permission of deviation (AWE) from customer (OEM) necessary,
- > The requirement for successfully completing the PPA procedure for ZSB is the BMG presence (if required) of the single components for the relevant production location and release with grade 1 (Customer-ready/Redy for series production) of the single components.
- 2. ZSBs with internal SEBN number (without VW number)
  - > The PPA procedure occures based on latest released customer (OEM) or manufacturer drawing,
  - > The manufacturer drawing has to be released by SEBN,
  - ➤ The requirement for successfully completion the PPA procedure for ZSB is the BMG presence (if required) of the single components for the relevant production location and release with grade 1 (Customer-ready/Ready for series production) of the single components.



- 3. Single components of ZSBs
  - The supplier is responsible for the release of all the components of his supply chain and is under an obligation to present these with the PPA documentation.
  - 3 a. Single components of the VW Group (VW number) at ZSBs
    - ➤ For single components of the VW group the parts have to be released according to the current VW Group drawing,
    - ➤ When the single component is subject to technical engineering approval, the BMG has to be presented,
    - ➤ For the usage of ZSB with a missing BMG or release of single components is a permission of deviation (AWE) from customer (OEM) necessary,
  - 3 b. Single components without VW number at ZSBs
    - ➤ For single components without VW number the parts have to be released according to the current manufacturer drawing,
    - > For the usage of ZSB with a missing release of the single components is a permission of deviation (AWE) from customer (OEM) necessary,
- 4. In case of changes to single components of ZSB (e.g. new part, change of supplier, technical change to the part, new tool, relocation of tool, relocation of the manufacturing location), the supplier is obliged to present a new PPA procedure for the ZSB at SEBN.

- 5. Multiple variants of ZSBs may be released in a common PPA procedure (e.g. AMEC or airbag cables, antennas):
  - > The release of product families is only to be used if the products are manufactured with the same production processes and production facilities and have the same product characteristic,
  - > The fulfillment of requirements for characteristics of product families can be demonstrated on the basis of a one product. The evidence applies across the board to the whole product family,
  - > The details of the PPA procedure for the release of product families are to be agreed in the coordination of the PPA procedure with SEBN.

#### PPA status of supply chain

According to the LAH.000.971 as an evidence for the PPA status in the supply chain for delivered ZSBs (e.g. ABS, airbags or antennas), all components must be listed in a material list according to the VW drawing with the release status from sub-supplier.

List of materials to >drawing number<; status: >date<

Supplier assembly part/ DUNS-No.: >Supplier< / >DUNS - No.<

Creation date: >date<

Creator (complete): >name<

Supplier part no.	OEM part no.	Designation	Manufacturer + production side	DUNS no. single component manufacturer	Drawing date	BMG	BMG date	Initial sample approved organisation	Initial sample release date	Initial sample test report no.	Grade	Date of last requalification

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## IMDS - Deklaration von Inhaltstoffen

- 1. The material data sheets have to be created via IMDS under <u>www.mdsystem.com</u> and to be send to <u>IMDS-ID 4244</u> (Sumitomo Electric Bordnetze SE).
- 2. The supplier is under an obligation to ensure that the sent material data sheets are veridical and are shown according to the mandatory, detailed and current specifications of the IMDS-Recommendations.
- 3. The verification of the material data of purchased parts in the IMDS by the SEBN locations takes place in accordance with the following requirements:
  - VW AG guideline for the creation of Material Data Sheets,
  - VW 01155 Vehicle Parts Approval of first supply and changes,
  - VW 91101 Environmental Standard for Articles Material and Chemical Conformity,
  - > VW 91102 Environmental Standard for Vehicles
    Recycling Requirements, Use of Recycled Material, Recyclability Type Approval.

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# **Material Quality Verification – VW 52000**

- 1. VW 52000 specifies the requirements for materials testing and for the evaluation and documentation of the test results.
- 2. In case that this standard is listed on a purchased part drawing, applies to all material quality verification during the development phase (especially for a build sample inspection) and to the production process and product approval procedure (PPA procedure) at the Volkswagen Group.

  If this is not the case, no evidence in the form of the standard test report is required.

3. Should the VW 52000 change so that the standard should also apply to components which are released by 1st tier, a new evaluation and discussion with the customer/OEM regarding wire harnesses is necessary.

| Merkstoffliche Benusterung nach VW 52000 | Material sample inspection as per VW

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# **Result of PPA procedure**

#### 1. Customer-ready/Ready for series production Serial delivery of the products has been approved:

- > The agreed customer requirements are completely fulfilled,
- ➤ As an alternative, deviations are accepted permanently by the customer following a joint risk assessment carried out by the organization and the customer. A separate deviation approval is not necessary.

#### The PPA procedure towards customer is closed

> The agreed customer requirements are not completely fulfilled.

Deviations are accepted by the customer for a limited time or quantity following a joint risk assessment carried out by the organization and the customer.

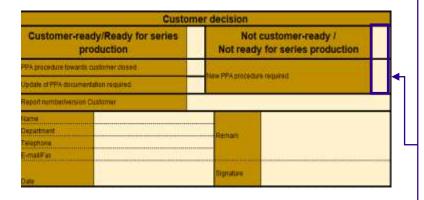
A separate deviation approval is not necessary if not otherweise agreed between the organization and the customer.

**Update of PPA documentation is required** 

After the implementation of the agreed actions, the updated PPA documentation must be submitted.

Custom	er decision
Customer-ready/Ready for series production	Not customer-ready / Not ready for series production
PPA procedure towards outlomer closed	Commence of the Commence of th
Update of PPA documentation required	Maw PPA procedure required
Report number/version Customer	
Flame .	
Department	Remark
Emephone	
E-matifier	
	fignature
Dia .	

# **Result of PPA procedure**



#### 2. Not customer-ready/Not ready for series production The serial delivery approval is not granted:

- > Legal requirements have not been met,
- ➤ The agreed customer requirements have not been fulfilled (e.g. BMG is missing, IMDS requirements are not fulfilled, marking of the plastic parts according to VW 10500 is missing, processing and assembly of the parts is very difficult or the function is affected negatively),
- ➤ A permission of deviation may not be granted.

  Delievery of products is not permitted.

A new PPA procedure is required

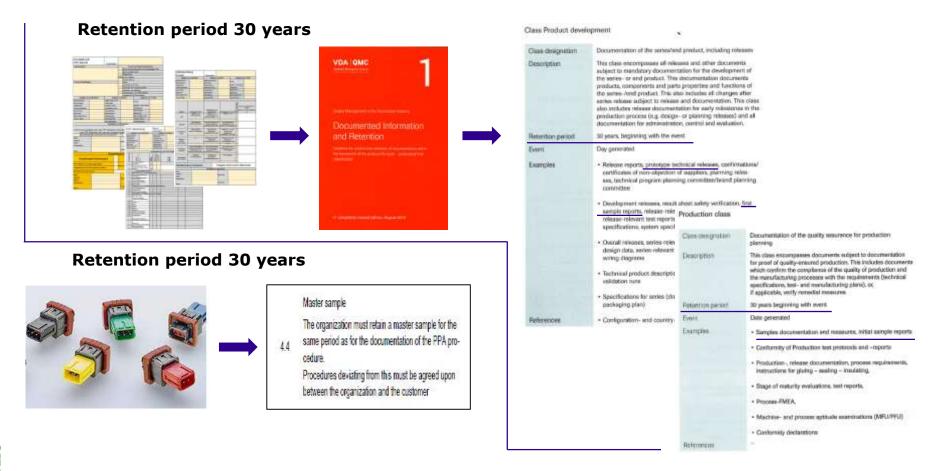
#### Important for the customer decision:

- ✓ The worst individual result determines the overall result,
- ✓ The decision concerning submission updated PPP documentation must be made by the customer,
- ✓ Adjustments to the specifications are to be documented by the customer in the release document for the PPA

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# **Retention periods**

After PPA procedure, the initial sample reports, technical engineering approvals and measures must be retain for 30 years from the date of creation (according to the VDA 1). The same period concerns the reference samples (according to the VDA 2).



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# Requalification

- 1. All products (purchased parts and also manufactured products) have to undergo a requalification testing.
- 2. The regualification testing of all products is a requirement as to:
  - > IATF 16949 Chapter 8.6.2
  - > Formel Q konkret Chapter 4.6
  - > Quality specification for supplier and purchased parts management in the Volkswagen Group Chapter 4.6
  - > VDA 2 Chapter 10
  - > VDA 6.3 Chapter 5.5 and 7.1
  - > VDA 6.4 Chapter 8.2.4.1
  - ➤ VDA Product manufacture and product delivery "Robust production process"- Chapter 5.3.4
- 3. With the requalification testing, the supplier confirms that all characteristics proven for grade 1 (Customer-ready/Ready for series production-according to the new edition of VDA 2 from April 2020) still continue to meet the drawing requirements regarding dimension, material and function **during** series production.
- 4. The requalification does not replace the initial sample release. For this reason, the material list has been supplemented by a column "Date of last requalification" in accordance with the LAH.000.971 Quality requirements for wiring harnesses.

The requalification starts with the completion of the PPA process.

# Requalification

0010.311	et PPA							
report		Organization						
Organization			Reason for report creation					
			Report on production process and product approval (PPA)					
				Report on other				
			Requalification					
			Trigger of PPA procedure					
			- 55	Sample present				
Customer (recipie	ent)			New part				
(	,			Changes to prod	duct			
				Changes to prod				
			Change to supply chain					
			Re-use > 12 months standstill					
			Updated PPA documentation					
Information about	the organization	Information	abou	ıt samples	Information about the custo			
Report number		Delivery note number	ır		Customer			
Report version		Delivery quantity		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Customer			
Delivery location		Batch number			Order NumberPPA sam			
Production location		Sample weight [kg]			Unloading point			
Part Number		Hardware version			Part Number			
Name		Diagnosis status			Name			
Drawing number		Software version			Drawing number			
Version / Date		Identification/DUNS			Version / Date			
Bauteil mit besondere	r Archivierungspflicht	Hardware approval			Software approval			
m		agreement and t			of VDA Volume 2.	agreements		
Name								
Department								
Telephone			R	emark				
E-mail/Fax			Re	emark				
L-IIIdil/FdX		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	R	emark				
				emark				
Date		Custome	Si	ignature				
Date  Customer-re	ady/Ready for	Custome · series	si r de	ignature  cision  Not ci	ustomer-ready / for series produc	ction		
Date  Customer-re	roduction		si r de	cision  Not co	for series produc	ction		
Customer-re	roduction customer closed		si r de	ignature  cision  Not ci	for series produc	ction		
Customer-re p PPA procedure towards	customer closed		si r de	cision  Not co	for series produc	etion		
Customer-re p PPA procedure towards Update of PPA documer	customer closed		Si de	cision  Not co	for series produc	ction		

5. The supplier is under an obligation to conduct the requalification testing at least **every three years\*** and to present it **at SEBN** (\* frequency is determined by the customer).

**D/TLD parts** – the requalification testing must be conducted **every 12 months.** 

6. SEBN Group requires for requalification testing the cover sheet according to VDA 2 (when the requalification is carried out by SEBN) – Reason for report creation "Requalification".

The evidence of conformity for the requalification testing must be documented internally by supplier, stored securely, presented to the customer on request and **may not be older than 3 years, concerning D/TLD parts 12 months**.

For this purpose, data of series production tests, incoming goods inspections and product audits may be used. During the requalification testing, the supplier must also check the validity of the IMDS data (e.g. change in legal requirements) an send it to SEBN.

7. In case of requalification, the products may be formed in a product families. This is applicable if the products are manufactured with the same production processes and production facilities and have the same product characteristics.

# **Our values**





# **SWS WAY**

Action principles for all of us in the Sumitomo harness business

#### **PROFESSIONALISM**

Customer satisfaction Honesty & Integrity Pride in what we do

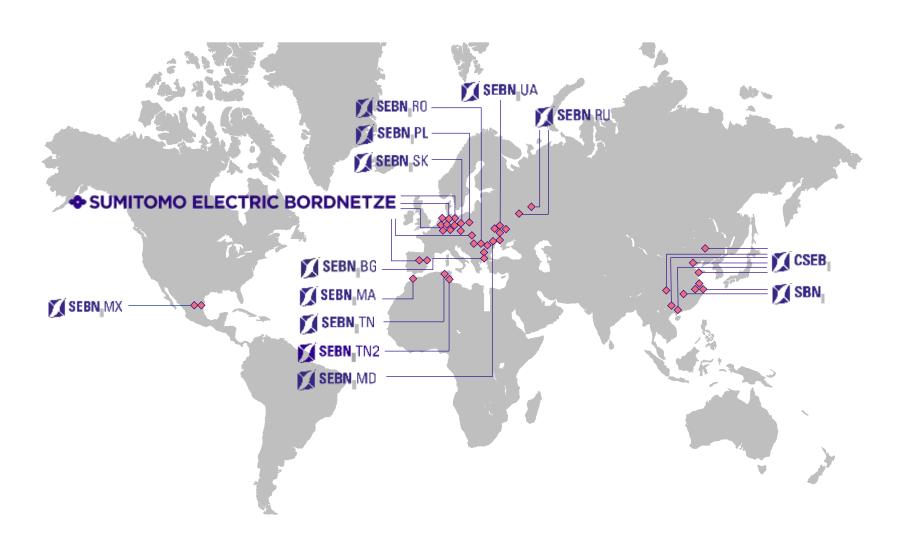
#### **TEAMWORK**

Mutual communication Accountability & Cooperation Diversity & Inclusion

#### CHALLENGE

•Forward thinking •Learning from experience •Ambition & Perseverance

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# **SUMITOMO ELECTRIC BORDNETZE**

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