

## Changes to PPAP Manual 3<sup>rd</sup> to 4<sup>th</sup> edition

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		Foreword to 4 <sup>th</sup> edition added	i
		PPAP Process flowchart example added	ii
1	APPLICABILITY	APPLICABILITY - Notes 3 and 4 added	1
1	APPROACH - <ul style="list-style-type: none"> <li>▪ The word “should” indicates a mandatory requirement with some flexibility allowed in compliance methodology</li> </ul>	APPROACH - The word “should” is a recommendation	1
1	APPROACH - <ul style="list-style-type: none"> <li>▪ Glossary contains information that should be used for compliance</li> </ul>	APPROACH - <ul style="list-style-type: none"> <li>▪ Terms and definitions given in ISO/TS 16949 and the PPAP glossary apply (Normative)</li> </ul>	1
2	PPAP REQUIREMENTS - <ul style="list-style-type: none"> <li>▪ Requirements for qualified laboratories removed</li> <li>▪ Note 1 removed</li> </ul>	<ul style="list-style-type: none"> <li>▪ See 2.2.12 Qualified Laboratory documentation</li> </ul>	10
3	PPAP REQUIREMENTS <ul style="list-style-type: none"> <li>▪ Requirements for PPAP part file and required records removed</li> </ul>	<ul style="list-style-type: none"> <li>▪ See section 6 - Record retention</li> </ul>	21
3	I.2.2.1 Design record	2.2.1 Design Records <ul style="list-style-type: none"> <li>▪ Notes 2-4 added</li> <li>▪ 2.2.1.1 Reporting of part material composition added</li> <li>▪ 2.2.1.2 Marking of polymeric parts added</li> </ul>	4
4	I.2.2.4 Design FMEA	2.2.4 Design FMEA <ul style="list-style-type: none"> <li>▪ Note 1 added</li> </ul>	5
8	I.2.2.10 Measurement Systems Analysis	2.2.8 Measurement Systems Analysis <ul style="list-style-type: none"> <li>▪ Note 1 added</li> </ul>	6
6	I.2.2.9.1 Initial process studies	2.2.11 Initial process studies <ul style="list-style-type: none"> <li>▪ Note 1 added</li> </ul>	7
6	I.2.2.9.2 Quality Indices	2.2.11.2 Quality Indices <ul style="list-style-type: none"> <li>▪ Note 1 updated with further explanation of Cpk vs. Ppk and their usage</li> </ul>	8
7	I.2.2.9.3 Acceptance criteria	2.2.11.3 Acceptance criteria <ul style="list-style-type: none"> <li>▪ Notes 1 and 2 added</li> </ul>	9
8	I.2.2.9.6 Strategy when acceptance criteria is not satisfied	2.2.11.6 Action to be taken when acceptance criteria is not satisfied <ul style="list-style-type: none"> <li>▪ Notes 1 and 2 added</li> </ul>	9
8	I.2.2.11 Qualified Lab documentation <ul style="list-style-type: none"> <li>▪ Labs qualified per QS-9000</li> </ul>	2.2.12 Qualified lab documentation <ul style="list-style-type: none"> <li>▪ Labs shall be qualified per customer specific requirements</li> </ul>	10

## APPENDIX A - Changes to Production Part Approval Process Manual 3<sup>rd</sup> to 4<sup>th</sup> edition

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11	I.3 Customer notification <ul style="list-style-type: none"> <li>▪ Supplier shall notify the customer of any process change. The customer may require a PPAP submission</li> </ul>	3.1 Customer notification <ul style="list-style-type: none"> <li>▪ Organization shall notify the customer of any planned changes. Upon approval and after the change the organization shall submit for PPAP approval unless otherwise specified</li> </ul>	13
12	I.3.2 Submission to customer	3.2 Submission to customer <ul style="list-style-type: none"> <li>▪ Note added</li> </ul>	15
13	I.3.3 Situations where customer notification is not required	Removed	15
19	Section II Customer specific requirements	Removed <ul style="list-style-type: none"> <li>▪ See customer web site and supplied documentation for details</li> </ul>	21
52	<ul style="list-style-type: none"> <li>▪ Appendix A - Part submission Warrant</li> </ul>	Appendix A - Part submission warrant revised	22
61	Appendix C - Dimensional results	Appendix C - Dimensional results <ul style="list-style-type: none"> <li>▪ Revised</li> </ul>	29
63	Appendix D - Material test results	Appendix D - Material test results <ul style="list-style-type: none"> <li>▪ Revised</li> </ul>	31
65	Appendix E - Performance test results	Appendix E - Performance test results <ul style="list-style-type: none"> <li>▪ Revised</li> </ul>	33
78	Appendix F - Bulk materials requirements checklist	Appendix F - Bulk material requirements checklist <ul style="list-style-type: none"> <li>▪ Revised to include customer specific requirements</li> </ul>	35

The Truck changes are not included, and will be posted at a future date as necessary.