



## Supplier Advanced Product Quality Planning (APQP) Procedure

Document No.: CP-8-ALL-48

Revision: B

Revision Date: 9<sup>th</sup> April 2019

### 1.0 PURPOSE / SCOPE:

- 1.1 The procedure describes the minimum TI Automotive Corporate requirements for the Supplier Advanced Product Quality Planning Process (APQP) which is executed in each TI Automotive Division. The process is a sub process to the overall Corporate Purchasing Process. Additional requirements which are necessary for the Divisional specific needs are documented in the Divisional specific Quality Systems Documentation.
- 1.2 This process is applicable to all TI Automotive Divisions and Regions and applies to all suppliers to TI Automotive globally including external, internal, inter-company and directed suppliers.

### 2.0 RESPONSIBILITIES:

- 2.1 The Global Corporate Purchasing Director shall be the process owner and shall maintain, update and communicate the process according to the Corporate System Manual CP-4-ALL-10) and the Corporate Document Control Process (CP-7-ALL-50).
- 2.2 Each division must identify a Department Director who is responsible to monitor the Supplier Advanced Product Quality Planning Process.
- 2.3 Each division must define the internal APQP Team that is responsible to monitor, check and execution of the supplier Advanced Product Quality Planning Process as required by Milestone Checklist (CF-8-ALL-4800) In cases where the part is delivered into various plants the regional leaders for the division will define the responsible plant supplier quality representative as well the appropriate supplier contact at each of the user plants.
- 2.4 It is the responsibility of the Divisional Quality Director and Divisional Purchasing Director to identify a suitable performance measurable for the process.



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### 3.0 **DEFINITIONS:**

- 3.1 AIAG - Automotive Industry Action Group
- 3.2 APQP- Advanced Product Quality Planning
- 3.3 GQS – Global Quality Management System
- 3.4 OEM – Original Equipment Manufacture
- 3.5 PPAP – Production Part Approval Process
- 3.6 PSW – Part Submission Warrant
- 3.7 QMS – Quality Management System
- 3.8 SQE – Supplier Quality Assurance Engineer
- 3.9 IATF – International Automotive Task Force

### 4.0 **REFERENCES / ASSOCIATED DOCUMENTS:**

- 4.1 CP-4-ALL-10 Corporate Systems Manual
- 4.2 CP-7-ALL-50 Document Control Process
- 4.3 C F-8-ALL-050 PPAP Review and Approval Checklist Tracking Form
- 4.4 CP-8-ALL-41 Global Supplier Requirements Manual
- 4.5 CP-8-ALL-42 Sourcing Committee Supplier Selection
- 4.6 CF-8-ALL-4800- Supplier APQP Checklist



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### 5.0 Key Process Steps:

5.1 TI has identified an APQP process for suppliers that utilize five (5) milestones for planning, executing and tracking the APQP process. Each of the Milestones has a checklist of requirements. The default requirement level for Supplier APQP is that all checklist items must be completed unless exceptions are approved in writing by TI Automotive. Suppliers will execute APQP as agreed upon by TI Automotive and will prepare documentation as required for each of the 5 Milestones in the APQP process:

5.1.1- Milestone 1- Supplier Kick Off/ Plan and Define the Program

5.1.2- Milestone 2- Tooling, Gauging and Equipment Design

5.1.3- Milestone 3- Product/Process Realization

5.1.4- Milestone 4- Pre-PPAP and Launch Readiness

5.1.5- Milestone 5- Process/ Product Validation Launch and Review Lessons Learned.

See CF-8-ALL-4800 Supplier APQP Checklist for full list of requirements

5.2 Suppliers will be responsible for tracking and reporting progress toward each step of the APQP process in the format and at the frequency agreed upon with TI Automotive.

5.3 Any changes or potential delays with meeting an APQP requirement must be immediately reported to the TI Automotive APQP Team leader.

5.4 Suppliers are responsible for ensuring they are working at all times to the latest revision of the Purchase Order and the corresponding revision of the product.

5.5 Each milestone must be signed off by TI Automotive before the task can be considered closed. Open issues must be tracked and reported to TI Automotive as agreed upon during Milestone #1.



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- 5.6 APQP evidence and data will be provided to TI Automotive as agreed upon during Milestone #1. Suppliers are responsible for the accuracy and timeliness of the information.
- 5.7 Some of the APQP activities contribute to the Supplier PPAP submission. It is the supplier's responsibility to maintain the original PPAP documentation. The TI Automotive user facility will have access to any/all documentation.
- 5.8 Every process or product change must be communicated to TI Automotive by the supplier and will require a new Production Part Approval Process (PPAP) unless authorized in writing by TI Automotive.



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**6.0 REASON FOR CHANGE TABLE:**

<b>REV. LTR.</b>	<b>REV. DATE</b>	<b>DESCRIPTION OF CHANGE</b>	<b>APPROVAL HISTORY</b>
A	7 <sup>th</sup> March 2018	Updated to reflect IATF 16949 requirements. Document number changed from CP-30-ALL-71 to CP-8-ALL-48	Global Director Corporate Quality Systems
B	9 <sup>th</sup> April 2019	Removed reference to CW-8-ALL-570 and modified reference number for CF-8-ALL-0500 (was CF-8-ALL-4700)	Global Director Corporate Quality Systems