

TI Fluid Systems

Global Supplier Requirements Manual

IATF 16949 Customer Specific Requirements

tiautomotive.com



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INTRODUCTION

Fluid thinking.[™]

Fluid thinking[™] shapes the mindset of TI Automotive. Global automotive manufacturers turn to TI Automotive for insight and focus to develop industry-changing fluid storage, carrying and delivery technology. With more than 123 locations in 29 countries, our strength lies in our ability to creatively meet and exceed the increasing fuel economy and emissions regulations of tomorrow's automotive industry.

TI Automotive cannot be successful in meeting our customer expectations without the partnership and commitment from our many external providers. By combining Quality & Purchasing, we are positioned to implement new global policies and standards that ensure success for our external providers, our customers, and ourselves.

Global Supplier Requirements Manual

Controlled Document No.CP-8-ALL-41

This Global Supplier Requirements Manual replaces all previous versions of what was formerly known as Global Supplier Manual

The purpose of this Manual is to communicate TI Automotive **Customer-Specific Requirements** supplemental to the IATF 16949 Automotive Industry Standard.

The guidelines described in this manual apply to all Global TI Automotive external providers of prototype, production and service components, as well as external providers supplying materials, equipment and services.

This manual and all procedures that support this manual can be downloaded from the TI Automotive Website- Supplier Resource Center. https://www.tiautomotive.com/supplier-resource-center

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OUR CORE VALUES

COMMITMENT TO COMPLIANCE AND ETHICS

The highest levels of integrity are achieved by understanding and embracing our Code of Business Conduct in our day to day work. Expect this of ourselves and others.

FOCUS ON PERFORMANCE

Our future depends on positive financial results. Only profitable businesses are sustainable. Commitment to results through strong work ethic and teamwork.

CUSTOMER FOCUS

Whether internal or external, our customer is why we are here. A positive and mutually beneficial relationship is the foundation for success. Don't miss an opportunity to make the customer's life easier.

COMMUNICATION

Communication is a key to success. Take a 'no surprises' approach to communicating and ensure the right people are informed of both positive and negative news in real time.

INNOVATE & IMPROVE

Keep up with the pace of business and seek out opportunities to improve. Be creative and challenge the norm. Don't miss an opportunity to develop new skills; our future will depend on it.

POSITIVE WORK ENVIRONMENT

Respect your colleagues, value their input and encourage their ideas. We are all responsible for creating an environment that fosters teamwork & results.

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Corporate Quality Systems Quality Policy

Quality and integrity are the foundation of our customer satisfaction and shareholder value success.

We use a global business process approach and data-based decision making to drive continual improvement.

Our people are educated, engaged and empowered to ensure our products are reliable and comply with all industry safety and government regulatory requirements.







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- 0.1 General-No Additional Requirements
- 0.2 Quality Management Principles No Additional Requirements

0.3 Process Approach

- 0.3.1 General No Additional Requirements
- 0.3.2 Plan-Do-Check-Act cycle No Additional Requirements
- 0.3.3 Risk-based thinking No Additional Requirements
- 0.4 Relationship with other management system standards No Additional Requirements

Quality Management Systems- Requirements

1.0 Scope

No Additional Requirements

1.1 Scope

The IATF 16949 QMS Standard defines the quality management system requirements for the design and development, product and, when relevant, assembly, installation, and services of automotive-related products, including products with embedded software.

This manual applies to all external providers, contractors and vendors to any Division of TI Automotive globally. The expectations defined in this manual apply to all types of external providers including customer directed.

The IATF 16949 Standard and these Customer Specific Requirements should be applied throughout the automotive supply chain.

2.0 Normative References

2.1 Normative References

Annex A (Control Plan) is a normative part of the IATF Automotive QMS standard and TI Automotive requirement.

Annex B (Bibliography- automotive supplemental) is informative, which provides additional information intended to assist the understanding of this Global Quality Systems Requirements IATF 16949 supplement.

2.2 Distribution of Manual

External providers will log onto the TI Automotive website where the latest revision of the Global Supplier Requirements Manual can be viewed and downloaded.

https://www.tiautomotive.com/supplier-resource-center. Any printed version of this document is an uncontrolled copy and may not accurately define the current requirements of TI Automotive. Logging on and accessing the manual will be considered acknowledgement the supplier has the most current version of this manual.

Any questions should be addressed to TI Automotive Purchasing.

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2.3 Revision of Manual

TI Automotive will review the manual on a regular basis and revisions and improvements will be made as needed. When any changes are made to this manual; external providers will be notified and they will be required to update all hard copies and electronic copies with the new revision.

External providers are responsible to check the revision on the TI Automotive web site to ensure they are following the most recent release.

2.4 Supplier Information

TI Automotive must have up to date and accurate information relating to our external providers. External providers are responsible for supplying this information and for providing updates on any changes or corrections to the information. These updates will be provided by completing the TI Automotive Supplier General Information Survey (SGIS) (CF-8-ALL-4200) At a minimum; external providers shall provide an update via the SGIS at least once per year or when any change in this information occurs. Following are examples of required supplier information:

- Supplier Plant contact information
- Supplier Minority/Diversity Certification as applicable
- NAFTA (North American Free Trade Agreement) Certificate of Origin Form as applicable (TI Automotive North America)
- Copy of IATF 16949 Registration Certificate
- Copy of ISO 14001 Registration Certificate
- Supplier Key Management Contact List
- Evidence of supplier financial stability
- PPAP/Annual Re-validation
- IMDS/REACH/CAMDS evidence of compliance to environmental regulations and laws
- Change of control or ownership of supplier
- Conflict Minerals as required in U.S. Dodd/Frank Wall Street Reform and Consumer Protection Act
- Supplier Safety Data Sheets (SDS)
- UK Modern Slavery Act

3.0 Supplier Management Guidelines

3.1 Business Conduct; External providers, Contractors and Vendors

TI Automotive is committed to operating with the highest level of integrity and fairness in all activities pertaining to our external providers, contractors and vendors. We will not discriminate or base any purchasing decisions on anything but merit.

Our employees are committed to the highest ethical standards and we conduct our business with customers, external providers and all others to avoid any perception or appearance of conflict or concerns regarding personal interests. All employees are governed by the TI Automotive Code of Business Conduct. All associates of TI Automotive are prohibited from accepting any gift or entertainment should ever be offered, given, provided or accepted by any Company employee or family member of an employee unless it: (1) is not a cash gift; (2) is consistent with customary business practices and the policies and rules of the customer; (3) is of negligible value; (4) cannot be construed as a bribe or payoff; and (5) does not violate any laws or regulations.

External providers to TI Automotive shall conduct business fairly and operate under the same high level of ethical standards.

3.2 Child Labor Laws

TI Automotive supports the international effort to govern the rights of children. External providers to TI Automotive and their sub-contractors shall comply with all laws and regulations in any jurisdiction related to the rights of children.

3.3 Environmental Policy

TI Automotive and all companies in its supply chain must respect the environment and accept appropriate responsibility for protecting it. Each supplier shall create and maintain an environmental management system to support that commitment including but not limited to the elements of the European Union (EU) ecological audit directive (EMAS) and/or ISO 14001 should be reflected and taken into account. The review of environmentally relevant elements may be part of a quality systems survey/audit.

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3.4 Confidentiality/Intellectual Property

TI Automotive has many innovative and highly technical products and processes. We are constantly working on new ideas; often with a supplier as a partner. We expect our external providers to protect our intellectual property and we require confidentiality for all of our business relations. TI Automotive intellectual property includes without limitation its patents, copyrights, trademarks, business processes, systems, manufacturing processes, technical and marketing information and strategic planning. The applicable TI Automotive Terms and Conditions govern this topic.

3.5 Notification of Supplier Management Changes

All external providers must notify TI Automotive in writing of any changes to key management staff. Key management staff would include but not be limited to; quality, materials, engineering, manufacturing, logistics and senior managers. In addition, external providers must notify TI Automotive in advance of any expiration of union contracts and of any potential work stoppage. External providers must notify TI Automotive or mergers, acquisitions, plant and changes in plant location. All changes in management shall be communicated to your lead buyer by updating the Supplier General Information Survey (SGIS) form. (CF-8-ALL-4200)

3.6 TI Automotive Conflict Minerals Policy

Background

"Conflict Minerals" refer to tin, tantalum, tungsten, and gold (3TG). On August 22, 2012, the U.S. Securities and Exchange Commission adopted final rules to implement reporting and disclosure requirements related to "conflict minerals," as directed by the Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010. The rules seek to dissuade industries from purchasing minerals that were mined under conditions of violence and armed conflict in the Democratic Republic of the Congo and adjoining countries ("conflict region"). They require manufacturers who file certain reports with the SEC to disclose whether the products they manufacture or contract to manufacture contain "conflict minerals" that are "necessary to the functionality or production" of those products.

Policy

TI Automotive supports the SEC legislation to end violence and human rights abuses. We request our external providers disclose the sources of conflict minerals used in their products, utilizing the Electronic Industry Citizenship Coalition (EICC) reporting template and following the automotive industry-wide approach as recommended by the Automotive Industry Action Group (AIAG). TI Automotive will not knowingly procure 3TG or components containing 3TG from the "conflict region" unless confirmed from "conflict free" sources. Our supply chain partners are expected to support this same initiative.

Note: TI Automotive is a public company trading on the London Stock Exchange; we will comply with conflict mineral reporting requests from our many global customers to enable their reporting.

4.0 Context of the Organization

- 4.1 Understanding the organization and its context No Additional Requirements
- 4.2 Understanding the needs and expectations of interested parties No Additional Requirements
- 4.3 Determining the scope of the quality management system No Additional Requirements
 - 4.3.1 Determining the scope of the quality management system- supplemental No Additional Requirements

4.3.2 Customer Specific Requirements (CSR) Customer-specific requirements shall be evaluated and included in the scope of the organization's management system. This shall include TI Automotive requirements as well as applicable TI Automotive Customer's specific requirements.

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4.4 Quality Management System and its processes

4.4.1 No Additional Requirements

4.4.1.1 Conformance of products and processes

The organization shall ensure conformance of all products and processes, including service parts and those that are outsourced to all applicable customer, statutory, and regulatory requirements. TI Automotive customer specific requirement includes **CW-4-ALL-411 Supplier Mandatory Safety and Regulatory Process**.

4.4.1.2 Product Safety

Most of the products produced by TI Automotive are classified as "safety" products. Suppliers shall adhere to the IATF 16949 requirements as well as all CSR requirements relating to product safety. TI Automotive customer specific requirement includes **CW-4-ALL-411 Supplier Mandatory Safety and Regulatory Process.**

4.4.2 No Additional Requirements

5.0 Leadership

5.1 Leadership and commitment

5.1.1 General

No Additional Requirements

5.1.1.1 Corporate Responsibility No Additional Requirements

5.1.1.2 Process effectiveness and efficiency No Additional Requirements

5.1.1.3 Process owners No Additional Requirements

5.1.2 Customer Focus No Additional Requirements

5.2 Policy

- 5.2.1 Establishing the quality policy No Additional Requirements
- 5.2.2 Communicating the quality policy No Additional Requirements
- 5.3 Organizational roles, responsibilities, and authorities No Additional Requirements
 - 5.3.1 Organization roles, responsibilities and authorities- supplemental No Additional Requirements
 - 5.3.2 Responsibility and authority for product requirements and corrective actions No Additional Requirements

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6.0 Planning

6.1 Actions to address risks and opportunities

6.1.1 and 6.1.2

No Additional Requirements

6.1.2.1 Risk Analysis

Suppliers shall perform feasibility analysis as part of quoting new business for TI Automotive. The feasibility study shall be part of the RFQ process.

6.1.2.2 Preventive Action

No Additional Requirements

6.1.2.3 Contingency Plans

No Additional Requirements

6.2 Quality Objectives and planning to achieve them Suppliers shall implement Advanced Product Quality Planning in compliance with CP-8-ALL-48 Supplier Advanced Product Quality Planning. Any deviation from this process must be approved in writing.

6.2.1and 6.2.1 (CP-8-ALL-48 Supplier Advanced Quality Planning)

6.3 Planning of changes (See section 8.2.4)

7 Support

7.2 Resources No Additional Requirements

> 7.2.1General No Additional Requirements

7.2.2People No Additional Requirements

7.2.3Infrastructure

No Additional Requirements

7.1.3.1 Plant, facility, and equipment planning No Additional Requirements

7.2.4Environment for the operation of processes

No Additional Requirements

7.1.4.1 Environment for the operation of processes- supplemental No Additional Requirements

7.2.5Monitoring and measuring resources

No Additional Requirements

7.1.5.1 General

No Additional Requirements

7.2.5.1.1 Measurement systems analysis No Additional Requirements

7.1.5.2 Measurement Traceability

No Additional Requirements

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7.1.5.2.1 Calibration/verification records No Additional Requirements

7.1.5.3 Laboratory Requirements

7.1.5.3.1 Internal Laboratory No Additional Requirements

7.1.5.3.2 External Laboratory No Additional Requirements (NOTE: the change in IATF 16949)

7.1.6 Organizational Knowledge

No Additional Requirement

7.2 Competence

- 7.2.1 Competence- supplemental No Additional Requirement
- 7.2.2 Competence- on-the-job training No Additional Requirement
- 7.2.3 Internal auditor competency No Additional Requirement
- 7.2.4 Second-party auditor competency No Additional Requirement

7.3 Awareness

No Additional Requirement

- 7.3.1 Awareness- supplemental No Additional Requirement
- 7.3.2 Employee motivation and empowerment No Additional Requirement

7.4 Communication

No Additional Requirement

- 7.5 Documented Information No Additional Requirement
 - 7.5.1 General No Additional Requirement
 - 7.5.2 Creating and updating No Additional Requirement
 - 7.5.3 Control of documented information

7.5.3.1 and 7.5.3.2 No Additional Requirement

7.5.3.2.1 Record Retention

Suppliers must comply with TI Automotive customer specific requirements for record retention. Country specific requirements can be found on the TI Automotive Supplier Resource Center.

7.5.3.2.2 Engineering Specifications No Additional Requirements

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8 Operation

8.1 Operational planning and control

No Additional Requirements

Operational planning and control- supplemental No Additional Requirements

8.2 Requirements for products and services

8.2.1 Customer Communication

No Additional Requirements

8.2.1.1 Customer Communication- supplemental

The default business language for TI Automotive shall be "English". All documentation, including PPAP documents, corrective action reports, etc. shall be in English. (Can also be in local language as well)

8.2.2 Determining the requirements for products and services No Additional Requirements

8.2.2.1 Determining the requirements for products and services- supplemental No Additional Requirements

8.2.3 Review of the requirements for products and services

8.2.3.1 No Additional Requirements

8.2.3.1.1 Review of the requirements for products and servicessupplemental

The organization shall retain documented evidence of a customer-authorized waiver for the requirements stated in ISO 9001, Section 8.2.3.1, for a formal review. TI Automotive requires an approved Supplier Request for Change Approval (SRCA) as evidence of authorization. (CF-8-ALL-4500)

8.2.3.1.2 Customer-designated special characteristics

Suppliers of S/R products shall comply with TI Automotive product identification requirements as defined in CW-4-ALL-411 Supplier Mandatory Safety and Regulatory Process.

8.2.3.1.3 Organization manufacturing feasibility

No Additional Requirements

8.2.3.2 No Additional Requirements

8.2.4 Changes to requirements for products and services

Prior to any supplier changes being implemented, a request for change form must be submitted to TI Automotive Purchasing for authorization. (CP-8-ALL-45 Supplier Change Management) Forms must be submitted for changes to existing production parts including but not limited to changes in manufacturing location (additions, closures, change of ownership, etc.), change in manufacturing equipment/process, change in design intent of part, change in material or any other change that affects fit, form, or function. External providers are only authorized to make the requested changes after the appropriate approvals have been given by TI Automotive Purchasing and must comply fully with the requirements for approval before implementation and shipment. The form TI Automotive uses is the Supplier Request for Engineering Change form. (CF-8-ALL-4500 Supplier SRCA Form) External providers can get copies of the form and learn more about the process by contacting TI Automotive Purchasing.

8.3 Design and development of products and services No Additional Requirements

8.3.1 General

No Additional Requirements

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8.3.1.1 Design and development of products and services- supplemental No Additional Requirements

8.3.2 Design and development planning

No Additional Requirements

- 8.3.2.1 Design and development planning- supplemental No Additional Requirements
- 8.3.2.2 Product design skills No Additional Requirements
- 8.3.2.3 Development of products with embedded software Suppliers of product that utilizes embedded software shall develop and qualify the product to the Automotive SPICE guidelines.

8.3.3 Design and development inputs No Additional Requirements

- 8.3.3.1 Product design input No Additional Requirements
- 8.3.3.2 Manufacturing process design input No Additional Requirements

8.3.3.3 Special Characteristics Suppliers of S/R/F products shall c

Suppliers of S/R/F products shall comply with TI Automotive product identification requirements as defined in CW-4-ALL-411 Supplier Mandatory Safety and Regulatory and Functional Process.

8.3.4 Design and development controls

No Additional Requirements

- 8.3.4.1 Monitoring No Additional Requirements
- 8.3.4.2 Design and development validation No Additional Requirements
- 8.3.4.3 Prototype Program No Additional Requirements

8.3.4.4 Production Part Approval Process

All PPAP packages SHALL be submitted in ENGLISH. We are a global company and the product may be used in various countries. The package can also include native language but all required information has to be written in English.

TI Automotive has provided a procedure and a series of checklists and forms to support PPAP and to ensure many of the critical and required documents and APQP activities have been considered and included in the PPAP package. (CW-8-ALL-500 PPAP Submission Review and Approval) These checklists reflect the basic requirements defined in the AIAG reference document, TI Automotive Specific requirements, and OEM specific requirements where applicable, regional and governmental laws, and regulation requirements. External providers are fully responsible for the content and accuracy of the PPAP packages and the checklists are intended as reference and are not all-inclusive.

Unless otherwise directed by TI Automotive, the supplier shall complete each of the checklists fully noting each item as either included or not included and submit the checklists with applicable evidence in the PPAP submission package. In some cases, the requirement may not be applicable for a specific submission and the checklist will be marked to reflect N/A. (NOTE: TI Automotive concurrence is required for any requirement to be N/A)

External providers cannot supply production materials to TI Automotive without formal PPAP approval.

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Yearly Re-Certification

External providers are expected to maintain the same process and quality levels approved during the original PPAP submission throughout the life cycle of the product. External providers must be able to provide evidence (if requested) demonstrating their product and process meets the standards established at PPAP.

Examples of the level of evidence TI Automotive might request:

- Level 1- Warrant Only
- Level 4- Warrant and other documents as defined by TI Automotive Level 3- Full submission

8.3.5 Design and development outputs

No Additional Requirements

8.3.5.1 Design and development outputs- supplemental No Additional Requirements

8.3.5.2 Manufacturing process design output No Additional Requirements

8.3.6 Design and development changes No Additional Requirements

No Additional Requirements

8.3.6.1 Design and development changes- supplemental No Additional Requirements

8.4 Control of externally provided processes, products and services

No Additional Requirements

8.4.1 General

No Additional Requirements

- 8.4.1.1 General- supplemental No Additional Requirements
- 8.4.1.2 Supplier Selection Process No Additional Requirements
- 8.4.1.3 Customer-directed sources (also known as "Directed-Buy") No Additional Requirements

8.4.2 Type and extent of control

No Additional Requirements

8.4.2.1 Type and extend of control-supplemental No Additional Requirements

8.4.2.2 Statutory and Regulatory requirements Suppliers of S/R/F products shall comply with TI Automotive product identification requirements as defined in CW-4-ALL-411 Supplier Mandatory Safety and Regulatory Process.

8.4.2.3 Supplier quality management system development No Additional Requirements NOTE: TI Automotive reserves the right to conduct audits as required in the IATF 16949 standard.

8.4.2.3.1 Automotive product-related software or automotive products with embedded software.

No Additional Requirements

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8.4.2.4 Supplier Monitoring

No Additional Requirements

8.4.2.4.1 Second-party audits

No Additional Requirements NOTE: TI Automotive reserves the right to conduct audits as required in the IATF 16949 standard.

8.4.2.5 Supplier Development

No Additional Requirements

8.4.3 Information for external providers

Supplier performance will be monitored and reported to suppliers monthly via email distribution of the TI Automotive Supplier Performance Scorecard.

8.5 Production and service provision

No Additional Requirements

8.5.1 Control of production and service provision No Additional Requirements

8.5.2 Identification and Traceability

External providers shall have a formal process to identify product, which enables tracking of the product throughout the process beginning with incoming raw materials and subcomponents all the way to the TI Automotive using plant. The process will ensure the ability of the supplier to quickly identify and quantify product by lot, manufacturing date, raw material or subcomponent batches/lots and key process variables.

The supplier must be able to quickly identify and segregate individual lots of product based off specific lot number or label information provided by TI Automotive and/or dates when the material was received by TI Automotive if that is all information that is available.

TI Automotive expects external providers to be able to respond with full traceability information including ship dates, quantities, quality and test status, and where used within 4 hours of request by TI Automotive.

Lot sizes must be determined based on analytical analysis of risk using tools such as PFMEA and preventative maintenance metrics. Lot control and traceability should be ensured anywhere risk is identified in the process. Lot size must be based on the ability of the supplier to detect and prevent shipment of potential suspect product and on the supplier's ability to manage any replacement needs and costs associated with the replacement. The RPN values in the supplier PFMEA and DFMEA must be utilized when developing lot control and traceability plans.

External providers shall ensure Tier N external providers also maintain fast, accurate and effective lot control/traceability systems.

8.5.3 Property belonging to customers or external providers No Additional Requirements

- 8.5.4 Preservation No Additional Requirements
- 8.5.5 Post-delivery activities No Additional Requirements

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8.5.6 Control of changes

Product and Process changes can occur for a variety of reasons including to facilitate continuous improvement and to support corrective actions. A process change is defined as any modification of the process, method, materials, location, equipment, measurement and test equipment or subcontractor changes from when the process utilized during PPAP approval. TI Automotive must be notified and must approve any/all process changes prior to implementation. External providers are not authorized to make the requested changes until the appropriate approvals have been provided by TI Automotive Purchasing. The form TI Automotive uses is the Supplier Request for Engineering Change form. (SRCA) External providers must understand the cost to TI Automotive for processing any changes since they may be charged back for those costs. Failure to comply with this requirement could result in serious actions from TI Automotive including loss of business. (CP-8-ALL-45 Supplier Change Management)

8.6 Release of products and services

No Additional Requirements

- 8.6.1 Release of products and services- supplemental No Additional Requirements
- 8.6.2 Layout inspection and functional testing See 8.2.4.4 Product Approval Process- Yearly Re-Certification
- 8.6.3 Appearance items No Additional Requirements
- 8.6.4 Verification and acceptance of conformity of externally provided products and services

No Additional Requirements

- 8.6.5 Statutory and regulatory conformity Suppliers of S/R products shall comply with TI Automotive product identification requirements as defined in CW-4-ALL-411 Supplier Mandatory Safety and Regulatory Process.
- 8.6.6 Acceptance Criteria

No Additional Requirements

8.7 Control of nonconforming outputs

8.7.1

8.7.1.1 Customer Authorization for concession

8.7.1.2 Control of nonconforming product- customer specific process

In the event a supplier causes a quality or delivery concern, they will be issued a **Supplier Non-Conformance Report (SNCR)** by the TI Automotive staff member initiating the concern. This format may also be used to notify external providers of other types of failures such as warranty, delivery concerns, PPAP or other required documentation rejections. In many cases especially at times when response time and containment are critical TI Automotive will also contact the supplier via telephone or other more direct communication.

The SNCR will define the concern; detail the quantity of parts identified for concern and will define the response action required by TI Automotive. There are several classifications for the concern that will be used to define the action required:

Formal Concern: Any concern sent to the supplier where TI Automotive is requesting immediate formal corrective action; typically in 8D format.

Critical Concern: A formal concern is considered "critical" when it results in risk related to the product safety, liability/reliability, design, environment, customer designated high severity, customer sanction and/or field action. An SNCR can also be classified as critical if there is a high concern related to warranty and future risk.

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Safety Concerns: TI Automotive produces safety products, which must comply with laws and regulations and must ensure safe operation for our customers. If a supplier is involved with a Safety/Regulatory or Functional issue (S/R/F), they must ensure early communications, awareness and escalation of customer critical issues involving product safety and potential field action or recall. For returned part analysis, confirm team expertise and prompt robust problem solving assignment with proactive communication and customer involvement.

Informal Concern: A potential concern that does not require formal corrective action from the supplier. These are typically concerns where the risk is either minimal or the situation is controlled by TI Automotive. Informal complaints may not require a formal corrective action but in all cases must be addressed in a way to drive preventative actions and continual improvements. In some cases; external providers will be notified of an informal concern via telephone or email but an SNCR may not be issued. TI Automotive will still have a record of these concerns in our SNCR database and any repeat issues will likely result in more formal actions required.

Response/Timing Requirements

First 24 hours- External providers must complete the first three (3) steps of the corrective action report which includes containment and full traceability and lot control and initial root cause analysis including review of the process(s) where the issue could have occurred. External providers are also expected to have at least interim corrective action in place at this time. External providers must report status to the TI Automotive plant quality department via the initial 8D report and telephone. **Within 14 days-** External providers must complete the formal corrective action report (8D), have permanent action identified, verified, validated and implemented where possible. If permanent action is not implemented interim corrective actions must be validated and approved by TI Automotive and in place until permanent corrective action is complete.

Escalation Process

The supplier shall have a defined escalation process, which is to be used for notification to an appropriate level of the organization – SR related items shall always be escalated to the senior level of the organization.

- 8.7.1.3 Control of suspect product No Additional Requirements
- 8.7.1.4 Control of reworked product No Additional Requirements
- 8.7.1.5 Control of repaired product No Additional Requirements
- 8.7.1.6 Customer Notification No Additional Requirements

8.7.1.7 Nonconforming product disposition

Controlled Shipping Level 1 and Level 2 (CSL-1/CSL-2)

Occasionally, supplier response may not be adequate to prevent recurrence or to effectively contain suspect product and safeguard TI Automotive and our customer from potential field issues or production stoppage. Should this occur TI Automotive would have external providers implement special measures such as a Controlled Shipping Level process to help reduce the risk. TI Automotive will inform the supplier in writing defining the controls we have chosen and where those controls should be implemented.

Controlled Shipping Level 1 (CSL-1)

CLS-1 typically includes a problem solving process as well as redundant inspection process. The CSL-1 is implemented at the manufacturing location and utilizes in-house staff for the process. The primary goal is to ensure that NO defects can leave the production facility and that all corrective actions and controls implemented are effective. CSL-1 is often referred to as the "Manager's Containment" because in most cases, it requires a sign-off and formal control by someone on the management staff.

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Controlled Shipping Level 2 (CSL-2)

CSL-2 includes the same processes as CSL-1 with additional inspection and auditing performed by a third party representing the customer's interests specific to the containment activity. Normally the third party is selected by the customer, approved by the customer, but paid for by the party under controlled shipping. CSL-2 can be implemented at several locations in the supply chain depending on where the action will be most effective. (Manufacturing plant, Customer Plant, off site, etc....)

Data must be collected for either level of containment to ensure the effectiveness of the containment, lot control and traceability of all suspect or "controlled" product and to demonstrate the permanent corrective actions are effective. In some cases, the controlled shipping may verify "interim actions".

Closure

Formal closure of any SNCR requires approval from the TI Automotive plant quality team that initiated the concern. To receive that approval the supplier must have completed the corrective action report (8), verified/validated all corrective actions and demonstrated effective and permanent corrective actions were implemented. External providers must provide evidence they have completed a robust "lessons learned" and "read across" of the concern to ensure the problem will not occur anywhere else and must provide evidence all appropriate APQP documents such as DFMEA, PFMEA and Control Plan have been update as required.

COPQ/ Supplier Charge Back

All costs incurred by TI Automotive that are due to a supplier not adhering to TI Automotive quality and delivery requirements may be charged back to the responsible supplier. This includes customer issues, scrap or other in-process waste, warranty and other any process fall out.

Examples of events typically associated with supplier caused COPQ: Rework, sort and disposition of suspect and non-conforming product Premium freight Down time/ over time/ line speed reduction Increased inspection Late Delivery Shipping errors Additional manpower Product or equipment damage Replacement materials/costs Reimbursement of all charges from a customer Warranty Costs

A Supplier Non-Conforming Report (SNCR) will be issued to the supplier. This report will describe the problem in detail, the associated costs in detail and the COPQ to be reimbursed by the supplier. In most cases, TI Automotive may also include an "administration" cost to address the costs for TI Automotive to administer and manage the concerns. The administration charge will vary depending on the location of the plant and the labor costs for the people involved. TI Automotive will only charge actual costs when recovering COPQ.

8.7.2 No Additional Requirements

9 Performance Evaluation

9.1 Monitoring, measurement, analysis and evaluation

- 9.1.1 General
 - 9.1.1.1 Monitoring, measuring of manufacturing processes No Additional Requirements
 - 9.1.1.2 Identification of statistical tools No Additional Requirements
 - 9.1.1.3 Application of statistical concepts No Additional Requirements

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9.1.2 **Customer satisfaction**

No Additional Requirements

9.1.2.1 Customer satisfaction- supplemental

9.1.3 Analysis and evaluation No Additional Requirements

9.1.3.1 Prioritization No Additional Requirements

9.2 Internal Audit

No Additional Requirements

9.2.1 & 9.2.2 No Additional Requirements

- 9.2.2.1 Internal Audit Program No Additional Requirements
- 9.2.2.2 Quality management system audit No Additional Requirements
- 9.2.2.3 Manufacturing process audit No Additional Requirements
- 9.2.2.4 Product audit No Additional Requirements

9.3 Management Review

No Additional Requirements

- 9.3.1 General No Additional Requirements
 - 9.3.1.1 Management review- supplemental No Additional Requirements
- **Management review inputs** 9.3.2 No Additional Requirements
 - 9.3.2.1 Management review inputs- supplemental No Additional Requirements
- 9.3.3 Management review outputs No Additional Requirements
 - 9.3.3.1 Management review outputs- supplemental No Additional Requirements

10 Improvement

10.1 General

10.2 Nonconformity and corrective action No Additional Requirements

10.2.1 and 10.2.2 No additional Requirements

10.2.3 Problem solving

No Additional Requirements

10.2.4 Error proofing

No Additional Requirements

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10.2.5 Warranty management systems

No Additional Requirements

Customer complaints and field test analysis 10.2.6

Suppliers of S/R products shall comply with TI Automotive product identification requirements as defined in CW-4-ALL-411 Supplier Mandatory Safety and Regulatory Process.

10.3 Continual Improvement

Continual improvement- supplemental 10.3.1

No Additional Requirements

11 Annex (1)

11.1 Regulatory/Environmental Management

TI Automotive works diligently to comply with all governmental, regional and local regulatory and environmental standards. External providers to TI Automotive shall have the same commitment. Examples of such standards:

11.1.1 International Material Data System (IMDS)

All external providers are required to provide material data in electronic format per the requirements defined in the International Material Data System (IMDS). For specifics and further information relating to this requirement, visit http://www.mdsystem.com. External providers of components are also responsible for the on-time provision of all IMDS relevant material data for their products and the products of their external providers. PPAP packages will not be approved without this evidence.

11.1.2 REACH

External providers to TI Automotive must comply with European Union Regulation Registration Evaluation Authorization and Restriction of CHemicals (REACH) and any/all amendments. This applies to external providers that provide substances on their own, in preparations or in articles. For information about how to comply with this requirement and you can also obtain information from the following web site: www.echa.europa.eu. A written confirmation by the companies REACH responsible must be sent to the TI Automotive Purchasing department. PPAP packages will not be approved without this evidence.

CAMDS 11.1.3

China Automotive Material Data System (CAMDS) is a product data management platform for implementing the "Recycling and Reutilization Policy of Automotive Product", carrying out the certification of recoverability rate and prohibited/restricted substance and improving the recoverability rate of China automotive material. It will help the auto manufacturers to conduct information management of various products and links in their supply chain. Several of the OEMs in China are requiring adherence to this requirement. Therefore, any product shipped to TI Automotive for use in the China market may be required to satisfy this requirement. More information can be found at the following website: http://www.camds.org/camds en/

11.1.4 **Containerization/Pallet Requirements**

Some regions where TI Automotive ships product have regulations relating to containerization and packaging. External providers to TI Automotive must adhere to these regulations. Examples of this type of regulation are:

USDA Restrictions of Wood Pallets - The US requires TI Automotive and its external providers to utilize pallets that have been certified as having been constructed from wood that has been treated/ fumigated. The pallets will need to bear a seal, showing certification. For more information, visit the following websites:

For the United States: http://www.aphis.usda.gov/

For Mexico: http://www.semarnat.gob.mx

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EU legislation: Wood packaging material Introduction

The EU has laid down phytosanitary (plant health) requirements in order to prevent the introduction of organisms harmful to plants and plant products, and their spread within the EU. Wood packaging material (e.g. packing cases, boxes, crates, drums, pallets, box pallets) or dunnage (wood used to wedge and support non-wood cargo) are pathways for the introduction and spread of pests. The EU directive specifies the protective measures. It prohibits the presence of certain identified harmful organisms on plants or plant products, provides for phytosanitary checks and certificates for plant and plant products moving within EU Member States and imported from non-EU countries, including from developing countries.

11.1.5 Customs/Exports Regulations

Some OEM customers require compliance to CT-PAT which is a joint initiative of U.S. Customs and Border Protection and the trade community. TI Automotive is required to communicate with its supply chain business partners regarding the C-TPAT Security Criteria and to determine whether each partner is a member of C-TPAT or meets the C-TPAT Security Criteria. TI Automotive requires that all external providers adhere to C-TPAT requirements in accordance with the criteria identified on <u>www.cbp.gov</u>, for importers.

11.2 Country or Region Specific Requirements

TI Automotive is a global company and is required to comply with country and region specific laws and regulations. TI Automotive external providers shall also comply with these laws and regulations. Examples of country or region specific laws are:

11.2.1 NAFTA (For external providers to North America only)

All external providers must comply with US, Canada and Mexico Customs regulations and requirements including completion of annual NAFTA Certificate of Origin for all parts supplied to North America. Issuing a Certificate of Origin carries legal consequences; so external providers that are not certain about how this applies to product they supply should either contact the U.S. Customs NAFTA FACTS line ((972) 57401582 or the Mexico Customs (011-52-211-3545) CTPAT and AOE requirements may also apply to product being shipped across U.S. borders External providers can also obtain information at the following website: www.customs.gov

11.2.2 Certificates of Origin

Canada, Mexico and the United States established a uniform Certificate of Origin to certify that goods imported into their territories qualify for the preferential tariff treatment accorded by the NAFTA. The Certificate of Origin must be completed and signed by the exporter of the goods. Where the exporter is not the producer, the exporter may complete the Certificate on the basis of:

- knowledge that the good originates;
- reasonable reliance on the producer's written representation that the good originates; or a completed and signed Certificate of Origin for the good voluntarily provided

11.2.3 Chinese Compulsory Certification (CCC)

The **China Compulsory Certificate mark**, commonly known as **CCC Mark**, is a compulsory safety mark for many products sold on the Chinese market. It became effective on May 1, 2002. It is the result of the integration of China's two old compulsory inspection systems, namely "CCIB" (Safety Mark, introduced in 1989 and required for products in 47 product categories) and "CCEE" (also known as "Great Wall" Mark, for electrical commodities in 7 product categories), into a single procedure.

TI Automotive external providers that produce product for usage in China may be required to comply with this regulation. External providers can obtain information relating to this requirement at the following internet site: http://www.cqc.com.cn

12 Glossary/Acronyms

8D (8 Discipline Problem Solving Report) Corrective action process typical to the Automotive Industry that requires a specific process and 8 specific steps be followed.

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- AIAG (Automotive Industry Action Group) AIAG is an organization of component external providers and automotive manufacturers, which look at ways to standardize processes and procedures for the industry and between groups.
- ANFIA (Associazione Nazionale Fra Industrie Automobilistiche) (National Association of the Automobile Industry) Italian auto industry standard
- APQP (Advanced Product Quality Planning) A quality tool used for product planning and defining controls.
- ASL (Approved Supplier List) List of external providers that are approved to supply product
- ASN (Advanced Shipping Notice) An EDI transaction that contains various information regarding the shipment of parts and materials. (Typically referred to as an 856)
- CAD (Computer Aided Design) The use of computer technology to aid in the design of products; real or virtual
- CSL (Controlled Shipping Level) Special measures required when shipping product that has had quality concerns.
- **COPQ** (Cost Of Poor Quality) Metric used to quantify and track the cost of mistakes or poor quality. This metric is not just used for product but for any areas where waste or problems can have cost.
- CQI (Continuous Quality Improvement) Process and philosophy for driving continuous analysis, review and improvement.
- CT-PAT (Customs Trade Partnership Against Terrorism) C-TPAT is a U.S. government-business initiative to build cooperative relationships that strengthen and improve overall international supply chain and U.S. border security.
- Cpk (Process Capability Index) Statistical tool used to estimate/calculate the capability of a process to meet drawing requirements or specifications.
- **DFMEA** (Design Failure Mode and Effects Analysis) Analytical method for evaluating the risks associated with the design of a product and for measuring the effectiveness of improvement actions.
- EDI (Electronic Data Interchange) Method of communicating information between companies by using computers to transmit and interpret coded data.
- **EU** (European Union) An economic and political union between 27 member countries primarily located in Europe. Committed to regional integration.
- FAO (Food and Agriculture Organization) FAO is a United Nations specialized agency accountable to the FAO Conference of member governments. FAO participates in the United Nations Economic and Social Council (ECOSOC) which coordinates economic, social and related work of the 14 UN specialized agencies as well as regional commissions.
- **GD&T** (Geometric Dimensioning and Tolerancing) The purpose of GD&T is defined as describing the geometric requirements for part and assembly geometry. Proper application of GD&T will ensure that the allowable part and assembly geometry defined on the drawing leads to parts that have the desired form and fit (within limits) and function as intended.
- **GR&R** (Gauge Repeatability and Reliability) Statistical tool used to verify the effectiveness of a gauge to accurately and consistently measure a product. It also defines the variability of the gauge in relation to the tolerance of the feature.
- IATF (International Automotive Task Force) The IATF is an "ad hoc" group of automotive manufacturers and their respective trade associations, formed to provide improved quality products to automotive customers worldwide. IATF members include the following vehicle manufacturers: BMW Group, Chrysler LLC, Daimler AG, Fiat Group Automobiles, Ford Motor Company, General Motors Corporation (including Opel Vauxhall), PSA Peugeot-Citroen, Renault, Volkswagen AG and the vehicle manufacturer's respective trade associations - AIAG (U.S.), ANFIA (Italy), FIEV (France), SMMT (U.K.) and VDA (Germany).
- **IMDS** (International Material Data System) The International Material Data System (IMDS) is a collective, computerbased material data system used by automotive OEMS to manage environmentally relevant aspects of the different parts used in vehicles. Through this system, the automotive industry is able to reconstruct the complete material flow.

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- MSA (Measurement Systems Analysis) MSA, is a specially designed experiment that seeks to identify the components of variation in the measurement.
- **NAFTA** (North American Free Trade Act) The North American Free Trade Agreement (NAFTA) is a trade agreement among the United States, Canada, and Mexico that liberalizes restrictions on trade among the three countries. The agreement includes processes to manage tariff rates.
- **NIST** (National Institute of Standards and Technology) NIST is the U.S. federal technology agency that works with industry to develop and apply technology, measurements, and standards.
- **OEM** (Original Equipment Manufacturers) For the purpose of this manual the OEM's are the global manufacturers of original equipment; primarily automobiles; that TI Automotive supplies.
- **OSHA** (Occupational Safety and Health Administration) OSHA is the main U.S. federal agency charged with the enforcement of safety and health legislation.
- OHSAS (Occupational Health and Safety Assessment Series) OHSAS 18001 is an Occupation Health and Safety Assessment Series for health and safety management systems.
- **PFMEA** (Process Failure Mode and Effects Analysis) Analytical method for evaluating the risks associated with the process used to produce a product and for measuring the effectiveness of improvement actions.
- PO (Purchase Order) A purchase order (PO) is a commercial document issued by a buyer to a seller, indicating types, quantities, and agreed prices for products or services the seller will provide to the buyer. Sending a PO to a supplier constitutes a legal offer to buy products or services. Acceptance of a PO by a seller usually forms a one-off contract between the buyer and seller so no contract exists until the PO is accepted
- **PPAP** (Production Part Approval Process) PPAP defines generic requirements for product part approval including production and bulk materials. The purpose of PPAP is to determine if all customer engineering design record and specifications are properly understood by the supplier and that the process has the potential to produce product consistently meeting these requirements during an actual production run at the quoted production rate.
- Ppk (Potential Process Capability Index) Statistical tool used to estimate/calculate the "provisional" capability of a process to meet drawing requirements or specifications.
- **PSO** (Process Sign Off) Process Sign-Off is a method to verify that a Supplier's quality planning processes have been successfully executed and that its production processes are capable of producing quality parts in sufficient quantity for production.
- **REACH** (Registration, Evaluation, Authorization, and restriction of Chemical substances) European Community Regulation on chemicals and their safe use (EC 1907/2006). It deals with the Registration, Evaluation, Authorization and Restriction of Chemical substances.
- **RFQ** (Request For Quote) A request for quotation is a standard business process whose purpose is to invite external providers into a bidding process to bid on specific products or services.
- RMS (Reliability, Maintainability and Supportability Analysis) Analytical tool used to evaluated and quantify risk.
- **RPN** (Risk Potential Number) RPN is a measure used when assessing risk to help identify critical failure modes associated with your design or process.
- **SNCR** (Supplier Non-conforming Report) Notification sent to external providers defining a concern. The SNCR contains information defining the problem, the suspect quantities and other relevant information needed to conduct problem solving. The SNCR is also the format used by TI Automotive for tracking and recording supplier concerns.
- **SPC** (Statistical Process Control) SPC is the application of statistical methods to the monitoring and control of a process to ensure that it operates at its full potential to produce conforming product.
- SRCA (Supplier Request for Change Authorization) SRCA is the form and the process that TI Automotive uses to manage process and product changes proposed by external providers. This is the only acceptable format TI will accept.
- S/R/F (Safety/Regulatory/Functional) Quality issues that can affect product safety, compliance to regulatory requirements or that can affect proper function of the safety products we produce.

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- USDA (United States Department of Agriculture) United States federal executive department responsible for developing and executing U.S. federal government policy on farming, agriculture, and food
- VA/VE (Value Analysis/Value Engineering) is a systematic method to improve the "value" of goods or products and services by using an examination of function. Value, as defined, is the ratio of function to <u>cost</u>.
- VDA (Verband der Automobilindustrie) German Auto Industry Standard

13 References

IATF- ISO/IATF 16949 Technical Standards

Obtain IATF Sanctioned Interpretations and FAQ, s at: <u>http://www.iatfglobaloversight.org/content.aspx?page=ISO/TS16949:2009</u>

Customer Specific Requirements/ Addendums to ISO/IATF 16949

The customer specific requirements to IATF 16949 documents can be found under the following link on the IATF page: <u>http://www.iatfglobaloversight.org/</u>

<u>AIAG</u>

APQP- Advanced Product Quality Planning and Control Plan FMEA- Failure Mode and Effect Analysis MSA- Measurement System Analysis PPAP- Production Part Approval Process Fundamental SPC- Statistical Process Control

Obtain AIAG documents and training materials at: <u>http://www.aiag.org/scriptcontent/index.cfm</u>

Associazione Nazionale Fra Industrie Automoilistiche (ANFIA/Italy)

Obtain ANFIA documents and information at: <u>http://www.anfia.it</u>

Comite des Constructeurs Francais d'Automobiles (CCFA/France)

Obtain CCFA documents and information at: http://www.ccfa.fr/

DIN EN ISO 9000 Quality Management Systems- Fundamentals and Vocabulary

DIN EN ISO 9001 Quality Management Systems- Requirements Obtain information for ISO 9000 and ISO 9001 at: http://www.iso.org/iso/iso_catalogue/management_standards.htm

Society of Motor Manufacturers and Traders (SMMT/UK)

Obtain information for SMMT at: http://www.smmt.co.uk/home.cfm

TI Automotive Specific References (Can be found at Supplier Resource Center)

TI Automotive Terms and Conditions (T&C)			
CF-8-ALL-4200	Supplier General Information Survey		
CF-8-ALL-4500	Supplier SRCA Form		
CP-8-ALL-45	Supplier Change Management		
CP-8-ALL-48	Supplier Advanced Product Quality Planning		
CW-4-ALL-411	Mandatory Supplier Safety, Regulatory and Functional Requirements		
CW-8-ALL-500	PPAP Submission Review and Approval		

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Changes/Document History

Date	Revision	Rev. Level	Approved By
7 th March 2018	New Release- IATF Supplement	А	Global Director Corporate Quality Systems
30 th November 2018	Added note on Introduction page for downloading documents from the Supplier Resource Center 2.2- Updated link to Supplier Resource Center 6.2- Added Quality objectives and planning to achieve them section. 6.3- Added section and note for planning changes 7.5.3.2.1- Change reference to Supplier Resource Center 8.2.4- Added reference to CP-8-ALL-45 8.3.4.4- Added reference to CP-8-ALL-47 8.4.3- Added note for TI Automotive Supplier Performance Scorecard. 13- References- Added note about Supplier Resource Center. Added list of all documents referenced in the manual: CF-8-ALL-4200 Supplier SRCA FORM CP-8-ALL-45 Supplier Change Management CP-8-ALL-45 Supplier Production Part Approval Process (PPAP CP-8-ALL-48 Supplier Advanced Product Quality Planning CW-4-ALL-411 Mandatory Supplier Safety, Regulatory and Functional Work Instruction CW-8-ALL-470 Supplier PPAP Guidelines	В	Global Director Corporate Quality Systems
9 th April 2019	8.3.4.4- Removed all references to CP-8-ALL-47 Supplier PPAP procedure. Replaced with CW-8- ALL-500 PPAP Submission Review and Approval	С	Global Director Corporate Quality Systems

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