SUMMARY OF IATF 16949 SECTIONS WITH CUSTOMER-SPECIFIC CONTENT

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* Denotes customer-specific content
1 Scope

1.1 Scope General


- The certification scope must include both IATF 16949 and the accompanying IATF 16949 GM-Customer Specific Requirements,
- The certification must be conducted in compliance with the IATF recognized automotive certification scheme by a Certification Body currently contracted and recognized by the IATF.

All IATF 16949:2016 requirements, including the requirements of this document, shall be addressed in the organization’s quality management system.

The English language version of IATF 16949:2016 or related reference documents shall be the official version for purposes of third-party registration.

Sanctioned translations shall:

- Be for reference only
- Reference the English language as the official version
- Not contain ISO 9001:2015 text verbatim
- Include an appropriate copyright statement

Any other language translations are not authorized.

Organizations shall refer to the CG4338 GM 1927 03 Supplier Quality Statement of Requirements (SOR), for requirements for organizations supplying parts and materials to General Motors.

1.2 IATF 16949:2016 Deviations (Waivers)

Organizations requesting deviations (waivers) for IATF 16949:2016 Certification must contact their GM SQE and complete the GM 1927 71 Quad Report for certification waiver and obtain GM Supplier Quality Leadership approval. The completed and approved Quad Report will be stored in GM’s Supplier Certification Management System (SCMS) under the requesting Organization’s DUNS.

2 Normative references

2.1 Normative and informative references

No additional requirements.
3 Terms and definitions

3.1 Terms and definitions for the automotive industry

Accredited Laboratory
An accredited laboratory is one that has been independently evaluated for technical competence. The criteria for evaluation are based on ISO/IEC 17025, or national equivalent. Accreditation is performed by qualified agencies (public or private) operating in accordance with ISO/IEC 17011.

NOTE: The above definition also applies to the reference manuals in Section 2 of this document and currently in effect.

Active Part
An active part is one currently being supplied to the customer for original equipment or service applications. The part remains active until tooling scrap authorization is given by the appropriate customer activity. For parts with no customer-owned tooling or situations where multiple parts are made from the same tool, written confirmation from the customer Purchasing activity is required to deactivate a part.

NOTE: For bulk material, “active part” refers to the bulk material contracted, not the parts that are subsequently produced from that material.

Aftermarket Parts
Aftermarket parts are replacement parts not procured or released by OEM for service part applications which may or may not be produced to original equipment specifications.

Accessory Parts
Parts manufactured to GM standards, that are procured or released by GM, and are mechanically attached or electronically connected to the vehicle before or after final delivery to the customer.

Bypass
Proactive approach to address potential error proofing failures with a defined and approved process which addresses the risk as defined in the PFMEA, considering safety, severity and overall RPL rating. Bypass process is established before a device failure. Bypass differs from a deviation process as a deviation process is a reactive process.
Customer
References to “customer” in IATF 16949:2016 and this document shall be interpreted as the Procuring Division of General Motors for organizations pursuing third party registration to IATF 16949:2016 to satisfy General Motors sourcing requirements third party quality system assessment registration.

Service Parts
Replacement parts manufactured to OEM specifications, which are procured or released by the OEM for service part application.

Severity Score
Severity Score for a GM supply organization is impacted when quality SPPS (Supplier Practical Problem Solving) records are written with a documented impact towards the GM final customer, GM manufacturing plant, or GM product (vehicle, powertrain or component). A Severity Matrix is used to equate the Plant and or Customer Impact resulting in a Severity Score.

Organization
Organizations are defined as providers of: a) production materials, b) production, service, and accessory parts, or c) heat treating, plating, painting or other finishing services, directly to General Motors or other customers subscribing to this document.

NOTE: See IATF 16949:2016, Section 3, Terms and definitions.

Suppliers
Suppliers are defined as organizations that are providers of: a) production materials, b) production, service, and accessory parts, or c) heat treating, plating, painting or other finishing services, directly to an organization who is a provider of General Motors or other customers subscribing to this document.

NOTE: The term “tier supplier(s)” refers to suppliers at any tier level in the automotive supply chain.

4 Context of the organization
No additional requirements.

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
4.3.1 Determining the scope of the quality management system – supplemental
No additional requirements.
4.3.2 Customer-specific requirements
No additional requirements.

4.4 Quality management system and its processes
4.4.1
No additional requirements.
4.4.1.1 Conformance of products and processes
No additional requirements.
4.4.1.2 Product safety
No additional requirements.
4.4.2
No additional requirements.

5 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
5.3.1 Organizational roles, responsibilities, and authorities – supplemental
No additional requirements.

5.3.2 Responsibility and authority for product requirements and corrective actions
No additional requirements.

6 Planning

6.1 Actions to address risks and opportunities
No additional requirements.

6.1.1 and 6.1.2
No additional requirements,

6.1.2.1 Risk analysis
No additional requirements.
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
6.2.1 and 6.2.2
No additional requirements.

6.2.2.1 Quality objectives and planning to achieve them – supplemental
No additional requirements.

6.3 Planning of changes
No additional requirements.

7 Support

7.1 Resources
7.1.1 General
No additional requirements
7.1.2 People
No additional requirements
7.1.3 Infrastructure
No additional requirements
7.1.3.1 Plant, facility, and equipment planning
No additional requirements
7.1.4 Environment for the operation of processes
No additional requirements
7.1.4.1 Environment for the operation of processes – supplemental
No additional requirements
7.1.5 Monitoring and measuring resources
No additional requirements
7.1.5.1 General
No additional requirements

7.1.5.1.1 Measurement system analysis
No additional requirements

7.1.5.2 Measurement traceability
No additional requirements

7.1.5.2.1 Calibration/verification records
No additional requirements

7.1.5.3 Laboratory requirements
No additional requirements

7.1.5.3.1 Internal laboratory
No additional requirements

7.1.5.3.2 External laboratory
No additional requirements

7.1.6 Organizational knowledge
No additional requirements

7.2 Competence

7.2.1 Competence – supplemental
No additional requirements

7.2.2 Competence – on-the-job training
No additional requirements

7.2.3 Internal auditor competency
No additional requirements

7.2.4 Second-party auditor competency
No additional requirements

7.3 Awareness
No additional requirements
7.3.1 Awareness – supplemental
No additional requirements

7.3.2 Employee motivation and empowerment
No additional requirements

7.4 Communication

7.5 Documented information

7.5.1 General
No additional requirements

7.5.1.1 Quality management system documentation
No additional requirements

7.5.2 Creating and updating
No additional requirements

7.5.3 Control of documented information
No additional requirements

7.5.3.1 and 7.5.3.2
No additional requirements

7.5.3.2.1 Record retention
The organization’s business records shall be retained as specified in GMW15920. Organizations can purchase GMW documents from IHS at www.global.ihs.com

7.5.3.2.2 Engineering specifications
No additional requirements

8 Operation

8.1 Operational planning and control

8.1.1 Operational planning and control — supplemental
No additional requirements
8.1.2 Confidentiality
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
No additional requirements

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
No additional requirements
8.2.3.1
No additional requirements
8.2.3.1.1 Review of the requirements for products and services — supplemental
No additional requirements

8.2.3.2 Customer-designated special characteristics
The organization shall follow General Motors Key Characteristic Designation System Process GMW15049. Key Characteristics shall be applied as per IATF 16949:2016 8.3.3.3 Special Characteristics.
8.2.3.3 Organization manufacturing feasibility
No additional requirements
8.2.4 Changes to requirements for products and services
No additional requirements
8.3 Design and development of products and services

8.3.1 General
No additional requirements

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
No additional requirements

8.3.3 Design and development inputs
No additional requirements

8.3.3.1 Product design input
All operations shall be analyzed for risk using a PFMEA. Product requirements shall be identified, and failure modes comprehended in the PFMEA. Risk Priority Levels (RPL) shall be consistently applied using Severity, Occurrence, and Detection ranking tables. Severity shall be based on all risks such as organization risk, customer risk, and end user risk.

8.3.3.2 Manufacturing process design input
No additional requirements

8.3.3.3 Special characteristics
The organization shall have a process to identify critical operations within their manufacturing 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 programme
No additional requirements

8.3.4.4 Product approval process
The organization shall comply with the AIAG Production Part Approval Process (PPAP) manual and CG4338 GM 1927 03 Supplier Quality SOR to meet this requirement.

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
The organization shall have a method to identify, control, and monitor the high-risk items on those critical operations.
There shall be rapid feedback and feed forward between inspection stations and manufacturing, between departments, and between shifts.

8.3.6 Design and development changes
No additional requirements

8.3.6.1 Design and development changes – supplemental
All design changes, including those proposed by the organization, shall have written approval by the authorized customer representative, or a waiver of such approval, prior to production implementation. See also AIAG Production Part Approval Process (PPAP) manual.

8.4 Control of externally provided processes, products, and services

8.4.1 General

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

8.4.2.2 Statutory and regulatory requirements
No additional requirements

8.4.2.3 Supplier quality management system development
No additional requirements

8.4.2.3.1 Automotive product-related software or automotive products with embedded software
No additional requirements

8.4.2.4 Supplier monitoring
No additional requirements

8.4.2.4.1 Second-party audits
Second-party auditors performing QMS audits must meet the requirements in clause 7.2.4 Second-Party Auditor Compliance in IATF 16949:2016 plus meet these additional requirements:

1. The organization must be IATF 16949:2016 certified and not on suspension.
2. The Second Party Auditor must be a qualified ISO Lead Auditor, or a qualified internal auditor with evidence of their successful completion of training, and a minimum of five internal ISO/TS 16949:2009 and/or IATF 16949:2016 audits under the supervision of a qualified lead auditor.

The organization may conduct (2nd party) audits of their supplier per their supplier development risk management analysis.

For initial certifications, the first second party audit should use the initial audit days from Table 5.2*. For subsequent second party audits use the recertification days Table 5.2*.

*See Automotive Certification Scheme for IATF 16949, Rules for Achieving and Maintaining IATF Recognition, section 5.2, Table 5.2 Minimum audit days.

The second party audits shall identify an acceptable passing level and include a scoring or ranking to determine which suppliers have passed. The organization shall have documented evidence that they review and follow up on all non-conformances identified in the second-party audit with the intent to close these non-conformances.
8.4.2.5 Supplier development

When a supplier to an organization is so small as to not have adequate resources to develop a system according to IATF 16949:2016 or ISO 9001:2015, certain specified elements may be waived by the organization. The organization shall have decision criteria for determining “specially designated small suppliers”. Such decision criteria shall be in writing and applied consistently in the application of this provision. The existence and use of such decision criteria shall be verified by 3rd party auditors.

NOTE 1: ISO 9001:2015 and IATF 16949:2016 Minimum Automotive Quality Management System Requirements for Sub-Tier Suppliers contain fundamental quality management system requirements of value to any size of provider of production materials, production, service, and accessory parts, or heat treating, plating, painting, or other finishing services. There are a number of methods to implement a compliant system, so it is recognized that a simpler Quality Management System approach could be used for the smaller suppliers of organizations to which IATF 16949:2016 clause 8.4.2.3 applies.

NOTE 2: “Small” may also refer to volume supplied to automotive.

8.4.3 Information for external providers

8.4.3.1 Information for external providers - supplemental

No additional requirements

8.5 Production and service provision

8.5.1 Control of production and service provision

No additional requirements

8.5.1.1 Control plan

General Motors does not provide waivers to organizations for control plan approval because General Motors signatures on the Control Plan are not required.

The organization shall provide measurement, test, and inspection data which demonstrates that control plan requirements, sample sizes, and frequencies are being met when requested.

Sample sizes and frequencies shall be determined based on risk and occurrence of failure modes, and to ensure that the customer is adequately protected from receiving the product represented by the inspection/tests before the results of the inspection/tests are known.

8.5.1.2 Standardized work – operator instructions and visual standards

Standardized work should include the what, how, and why tasks are performed. All standardized work shall be followed.

Visual standards throughout the facility shall be common, including between facilities building the same platform/product for global quality.

Visual standards shall be clearly communicated to all team members that are affected and referenced in the standardized work.
Visual standards that differentiate “good” from “bad” shall satisfy customer requirements and be controlled.

8.5.1.3 Verification of job set-ups
No additional requirements

8.5.1.4 Verification after shutdown
No additional requirements

8.5.1.5 Total productive maintenance
No additional requirements

8.5.1.6 Management of production tooling and manufacturing, test, inspection tooling and equipment
Where warehouses or distribution centers (distributors) are remote sites, the requirements for management of production tooling may not be applicable.

8.5.1.7 Production scheduling
No additional requirements

8.5.2 Identification and traceability
No additional requirements

8.5.2.1 Identification and traceability — supplemental
No additional requirements

8.5.3 Property belonging to customers or external providers
No additional requirements

8.5.4 Preservation
No additional requirements

8.5.4.1 Preservation - supplemental
No additional requirements

8.5.5.1 Feedback of information from service
No additional requirements

8.5.5.2 Service agreement with customer
No additional requirements

8.5.6 Control of changes
No additional requirements
8.5.6.1 Control of changes – supplemental

The documented process shall require consideration of a production trial run for every product and process change. Results of the trial run shall be documented.

8.5.6.1.1 Temporary change of process controls

The organization shall have a process for both bypass and deviation. The alternative actions identified on the bypass list shall be customer approved and shall be reviewed using the methodology of the PFMEA to identify the risk. This review shall be documented.

8.6 Release of products and services

8.6.1 Release of products and services — supplemental

No additional requirements

8.6.2 Layout inspection and functional testing

Unless specified otherwise by a GM Procuring Division, there is no customer established frequency for layout inspection after receiving production part approval (PPAP).

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

No additional requirements

8.6.6 Acceptance criteria

No additional requirements

8.7 Control of nonconforming outputs

8.7.1

No additional requirements

8.7.1.1 Customer authorization for concession

No additional requirements
8.7.1.2 Control of nonconforming product – customer-specified process
No additional requirements

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
No additional requirements

8.7.2
No additional requirements

8  Performance evaluation

9.1 Monitoring, measurement, analysis, and evaluation

9.1.1 General
No additional requirements

9.1.1.1 Monitoring and measurement of manufacturing processes
The organization shall have a method for the employee to call or notify for help when an abnormal condition on the equipment or product occurs. A method to call or notify shall be available in all operational areas of the organization.

Sufficient alarm limits shall be established for escalation of abnormal conditions and shall match the reaction plan identified in the product’s control plan.
9.1.1.2 Identification of statistical tools
No additional requirements

9.1.1.3 Application of statistical concepts
No additional requirements

9.1.2 Customer satisfaction
No additional requirements

9.1.2.1 Customer satisfaction – Supplemental.

New Business Hold
The organization shall notify their Certification Body within 5 business days of receiving notice of special status condition of GM New Business Hold. The Certification Body shall take the decision to place the organization on immediate suspension* upon receiving notice of GM New Business Hold (NBH).

*See Automotive Certification Scheme for IATF 16949, Rules for Achieving and Maintaining IATF Recognition, section 8.3.

1. In the event of certification suspension as a result of an organization receiving notice of General Motors New Business Hold (NBH), the organization shall complete a corrective action plan. The organization shall submit the corrective action plan to the Certification Body and to the affected customer(s) within 10 business days of the effective date of the NBH. The corrective action plan of the organization shall be consistent with the affected customer requirements including correction steps, responsibilities, timing information, and key metrics to identify effectiveness of the action plan.

2. Before any suspension can be lifted, the Certification Body shall take the decision to conduct an on-site special audit of appropriate length to verify effective implementation of all corrective actions. The special audit must be conducted within 90 calendar days from the notice of New Business Hold (NBH).

If suspension is not lifted within the maximum of 110 calendar days from the notice of New Business Hold (NBH), the Certification Body shall withdraw the IATF 16949 certificate of the organization. Exceptions to this withdrawal shall be justified in writing by the Certification Body based upon its on-site review of the effectiveness of the organization’s corrective action plan and agreement obtained in writing from the authorized GM customer representative.

NOTE 1: When an organization is placed in NBH after a recertification (or initial) site audit but before the certificate is issued:

- The Certification Body shall issue the certificate in accord with the IATF Rules.
- The Certification Body shall then place the new certificate in immediate suspension with the rules for lifting such suspension appropriately applied.
GM Quality Performance Requirements (also known as GM QPR)
Organizations shall achieve and maintain a Sourceability Level of 3, 4 or 5. If the organization’s Sourceability Level falls below Level 3, a performance complaint will be submitted against the organization on behalf of GM. The submission of the performance complaint will lead to the initiation of the Certificate Decertification Process*.

*See Automotive Certification Scheme for IATF 16949, Rules for Achieving and maintaining IATF Recognition, section 8.1-8.7.
Quick Reference Guides explaining supplier performance requirements are available through https://www.iatfglobaloversight.org/oem-requirements/quick-reference-guides/

NOTE 1: Two conditions where a performance complaint is not submitted for Sourceability level < 3 are:
- Sourceability Level 0 – With no production receipts nor any quality SPPS records in the last 12 months; or
- Not certified to IATF 16949 and Mfg. DUNS number not included in any other site certification as a Remote Site or extended manufacturing site

NOTE 2: The GM system Sourceability Report will indicate a Sourceability Level of 1 or 2 for those organizations not meeting the GM Quality Performance Requirements.

Organizations shall refer to the GM 1927 17 SQ Processes and Measurement Procedure, for metrics and status definitions.

CSII (Controlled Shipping Level 2)
The organization shall notify its Certification Body within 5 business days after being placed in Controlled Shipping – Level 2 (CS II) Status. The Certification Body is not required to issue a non-conformance for an organization placed in CSII status.

For CSII activities that are open during an audit, the organization’s Certification Body shall verify that an effective corrective action is in process and, if closed, that the corrective actions have been implemented and read across to the entire organization’s site for similar processes and/or products. The organization’s Certification Body shall also investigate any CSII activities that have occurred and were closed between surveillance audits.

NOTE: The GM condition of CS II (Controlled Shipping – Level 2) is a performance indicator of problems in an organization’s product realization process. The CSII condition should have resolution, or credible resolution and corrective plans in place, which are confirmed by the customer.

9.1.3 Analysis and evaluation

No additional requirements

9.1.3.1 Prioritization
9.2 Internal audit

9.2.1 AND 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
The organization shall incorporate an internal layered process audit process to assess compliance to standardized processes, to identify opportunities for continuous improvement, and to provide coaching opportunities. The layered process audit is led by Management who are competent to conduct the audits. The process shall include:

1. A schedule including frequency of audits and locations of planned audits.
2. Audit layers must be used and include different levels of employees, including top management.
3. Customer complaints or rejections trigger a layered audit on the process that was cause of the issue.
4. All departments within the organization.
5. All findings are recorded and measured for improvement.
6. Findings that cannot be corrected during the audit shall move to an action plan for monitoring to closure.
7. Records of audits shall be maintained.
8. Layered audit questions shall be reviewed periodically and changed if needed to focus on the organization’s weaknesses.
9. Layered process audit shall be done as part of corrective action verification activities.

In addition to layered process audits the organization shall audit specific manufacturing processes (see chart below) annually to determine their effectiveness. Applicability and effectiveness of these processes shall be determined utilizing the most current version CQI standard (see chart below). The effectiveness evaluation shall include the organization’s self-assessment, actions taken, and that records are maintained.

**NOTE 1:** The assessment must be performed by a competent auditor. An auditor is competent if they meet the following requirements:
• They shall be a qualified ISO 9001:2015 Lead Auditor, or a qualified internal auditor with evidence of their successful completion of training, and a minimum of five internal ISO/TS 16949:2009 and/or IATF 16949:2016 audits under the supervision of a qualified lead auditor.

• They shall have a minimum of 5 years’ experience working with the process that is being audited or a combination of experience and education in the specific process.

**NOTE 2:** Audit findings must be addressed in an action plan, with champion(s) assigned and reasonable closure dates.

**CQI Standards:**

<table>
<thead>
<tr>
<th>Process</th>
<th>CQI Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heat Treating Processes</td>
<td>CQI-9 Heat Treat System Assessment</td>
</tr>
<tr>
<td>Plating Processes</td>
<td>CQI-11 Plating System Assessment</td>
</tr>
<tr>
<td>Coating Processes</td>
<td>CQI-12 Coating System Assessment</td>
</tr>
<tr>
<td>Welding Process</td>
<td>CQI-15 Weld System Assessment</td>
</tr>
<tr>
<td>Plastics Molding Processes</td>
<td>CQI-23 Molding System Assessment</td>
</tr>
<tr>
<td>Solder Processes</td>
<td>CQI-17 Soldering System Assessment</td>
</tr>
<tr>
<td>Casting Process</td>
<td>CQI-27 Casting System Assessment</td>
</tr>
<tr>
<td>Brazing Process</td>
<td>CQI-29 Brazing System Assessment</td>
</tr>
<tr>
<td>Rubber Process</td>
<td>CQI-30 Rubber Processing System Assessment</td>
</tr>
</tbody>
</table>

**9.2.2.4 Product audit**

The organization shall perform quality focused checks on each shift.

The organization shall have a process for final inspection and/or Customer Acceptance Review & Evaluation (CARE). Early Production Containment (EPC) shall be performed as required during launch and until released by the organization’s assigned SQE or designate and per GM 1927 28 Early Production Containment (EPC).

1. Final inspection shall be performed on all finished product prior to shipping. This inspection can be 100% inspection or less based on risk.

2. EPC inspection checks shall be included at an upstream inspection station (final inspection/CARE).

3. Quality checks shall be included in standardized work. Point, touch, listen, and count inspection methods are incorporated.

4. Successive production/quality checks shall be increased in cases of high risks such as model launch, pass through components and characteristics pass through, major changes, shut down (see clause 8.5.1.4) or customer feedback.
9.3 Management review

9.3.1 General
No additional requirements

9.3.1.1 Management review - supplemental
No additional requirements

9.3.2 Management review inputs
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

The organization’s documented problem-solving process shall include:
1. Tracking of issues through closure.
2. Daily review of issues by a multi-disciplined team including plant management.
3. Daily reviews are documented.
4. All levels of the organization are included in the problem-solving process.
5. Robust method to identify the verifiable root cause(s) of each issue.
6. Timely closure of corrective action(s) including exit criteria.
7. Initial containment is well documented using a containment worksheet or similar

10.2.4 Error-proofing

Error proofing devices shall be tested to failure or simulated failure at the beginning of each shift at a minimum, otherwise according to the control plan. In the event of error proofing device failure, a reaction plan that includes containment should be included in the control plan.

The organization shall keep a list of all error proofing devices and identify which can be bypassed and which cannot (also see clause 8.5.6.1.1). The bypass determination shall consider safety, severity and overall RPL rating.

10.2.5 Warranty management systems

No additional requirements

10.2.6 Customer complaints and field failure test analysis

No additional requirements

10.3 Continual improvement

No additional requirements

10.3.1 Continual improvement – supplemental

The organization shall have a process for effective review of PFMEA of all manufacturing parts and processes to occur annually at a minimum. This review shall consider, at a minimum, critical, safety, and high-risk items. The organization shall incorporate tools such as reverse PFMEA or other similar methods to assist in the PFMEA review. PFMEA review output shall include an updated PFMEA, record of the changes made (or record that no changes were made), and identification of the team involved in the review.

Critical, safety, and high-risk items (such as priority from Risk Limiting Method, high RPL or equivalent) shall have an action plan which includes recommended actions, responsibility, and timing.

Reviewing a PFMEA for corrective action process does not meet the requirement of annual review unless there is evidence that critical, safety, and high-risk items are considered in addition to the corrective action issue. A proactive review approach is required.
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<td>Added Accessory Parts definition; added accessory parts to definitions of Organizations and Suppliers</td>
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<td>Added Accessory Parts; added “This clause does not apply to” the beginning of the 2nd paragraph</td>
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<td>8.4.2.4.1</td>
<td>Changed formatting, added “performing QMS audits” in first paragraph; in 2nd paragraph the wording was changed to clarify who a qualifying supplier is; added 4th paragraph</td>
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<td>8.4.2.5</td>
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<td>BIQS Certification section: 1st paragraph - Added withdrawn which is the same as revoked, added expired. Added 3rd paragraph and the 2 notes.</td>
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<td>9.2.2.3</td>
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<td>Added per GM 1927 28</td>
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<td>Added IATF 16949:2016 Deviations (Waivers)</td>
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<td>Replaced PRR with SPPS</td>
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<td>Removed probation from #1; 2nd paragraph Updated, The organization may conduct (2nd party) audits of their supplier per their supplier development risk management analysis; 3rd paragraph updated duration statement added *See Automotive Certification Scheme for IATF 16949, Rules for Achieving and Maintaining IATF Recognition, section 5.2, Table 5.2 Minimum audit days.</td>
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<td><strong>New Business Hold</strong> 1st paragraph added supplier notification requirement to CB; #2 replaced assessment with special audit and timing note for special audit; 2nd paragraph added maximum days from notice; replaced revoke with withdraw; replaced revocation with withdrawal; deleted NOTE 1: The permitted suspension period for General Motors Europe (GME) is six (6) months.</td>
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<td>BIQS Requirements Updated Section</td>
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<td>CSII (Controlled Shipping Level 2) Note: replaced special status with performance indicator; Added, the Certification Body is not required to issue a non-conformance.</td>
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<td>9.2.2.3</td>
<td>Added Welding Process CQI 15 Weld System assessment</td>
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<td>10.2.3</td>
<td>Updated #4 <em>All levels of the organization are included in the problem-solving process</em>; Added new #5 Robust method to identify the verifiable root cause(s) of each issue</td>
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<td>1st paragraph added in the event of error proofing device failure, a reaction plan that includes containment should be included in the control plan</td>
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<td>Throughout the document: replaced: Risk Priority Number (RPN) with <em>Risk Priority Levels (RPL)</em></td>
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<td>Corrected the referred document name: <em>CG4338 GM 1927 03 Supplier Quality SOR</em></td>
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<td>9.1.2.1- page 22</td>
<td>Replaced <strong>BIQS Requirements</strong> with <strong>GM Quality Performance Requirements</strong> and <strong>BIQS Level</strong> with <strong>Sourceability Level</strong></td>
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<td>Updated wording on <strong>GM Quality Performance Requirements (GM QPR)</strong> section/paragraph, including the Notes.</td>
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<td>Added a reference link to the <em>Quick Reference Guide</em> web page</td>
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<td>Deleted the word “quality” after NBH</td>
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<td>Added Brazing CQI-29 Brazing System Assessment and Rubber CQI-30 Rubber Processing System Assessment</td>
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