

Generic Supply Chain and Quality Requirements for Detailed Parts, Materials and Electronics

DESCRIPTION

This Directive defines the “Generic Supply-Chain & Quality Requirements” for the Commodity “Structures and Material” for Suppliers and their lower tiers.

Please be aware that beside these Generic Supply-Chain & Quality Requirements for Suppliers other Quality Requirements may exist and shall apply, too, like Product/Program/Project related Quality Requirements.

In case of conflict the Product/Program/Project related Quality Requirements are taking precedence over the conflicting Generic Supply-Chain & Quality Requirements.

Non conflicting Generic Supply-Chain & Quality Requirements shall still be applied.

SCOPE

Airbus DS

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TT.GOV.D170.EN

Issue:2
Generic Supply Chain and Quality Requirements for Detailed Parts, Materials and Electronics

DOCUMENT INFORMATION		
Topic Procurement & Supply Chain	Process / Function Quality	
Additional Information		
Status Released	Publication Date 16-06-2022	Invalidates
APPLICABILITY		
Site All sites	Legal Entity All Legal Entities	
Organization	Legacy System Airbus DS BMS	
Applicable Programmes Programme independent		
APPROVERS		
Approver Name	Approver Function	

Generic Supply Chain and Quality Requirements for Detailed Parts, Materials and Electronics

Description

This Directive identifies and defines the set of Generic Supply Chain and Quality Requirements for Detailed Parts, Materials and Electronics for Suppliers and their lower tiers at any level of the complete supply chain.

Please be aware that beside these Generic Supply Chain and Quality Requirements for Suppliers other Requirements may exist and shall apply, too, like Product/Program/Project related Requirements.

In case of conflict the Product/Program/Project related Requirements are taking precedence over the conflicting Generic Supply Chain and Quality Requirements.

Non conflicting Generic Supply Chain and Quality Requirements shall still be applied.

This document can be applied instead of ADS.x.0570 and BMS 80294.

Within this document the terms “Customer”, “Purchaser” or “Airbus” are also used for “Airbus Defence and Space”

Scope

Airbus Defence and Space

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Table of Contents

1	Introduction	4
1.1.01	Purpose and Applicability	4
1.1.02	Application	4
2	Requirements	6
2.1	Quality Requirements	6
2.1.02	Interested Parties (linked to IAQG-9100 §4.2)	6
2.1.04	Quality Management System and its processes (linked to IAQG-9100 §4.4)	6
2.1.05	Responsibilities (linked to IAQG-9100 §5.3)	9
2.1.06	Reporting (linked to IAQG-9100 §5.3)	9
2.1.07	Work delegation (linked to IAQG-9100 §5.3)	10
2.1.08	Risk & Opportunity Management (linked to IAQG-9100 §6.1)	10
2.1.09	Resources (linked to IAQG-9100 §7.1)	11
2.1.10	Quality Assurance Records (linked to IAQG-9100 §8.1)	13
2.1.11	Quality Planning (e.g. QAP) (linked to IAQG-9100 §8.1)	13
2.1.12	Design and development of products and services (linked to IAQG-9100 §8.3)	16
2.1.13	Control of externally provided processes, products and services (linked to IAQG-9100 §8.4)	17
2.1.14	Type and extent of control (linked to IAQG-9100 §8.4.2)	18
2.1.15	Access rights (linked to IAQG-9100 §8.4.3)	18
2.1.16	Production and Service Provision (linked to IAQG-9100 §8.5)	19
2.1.17	First Article Inspection (linked to IAQG-9100 §8.5.1)	23
2.1.18	Measurement, Metrology & Calibration (linked to IAQG-9100 §8.5.1)	23
2.1.19	Validation and control of special processes (linked to IAQG-9100 §8.5.1)	24
2.1.20	Media-control / Stamp-control (linked to IAQG-9100 §8.5.2)	25
2.1.21	Property belonging to Customers (linked to IAQG-9100 §8.5.3)	25
2.1.22	Preservation, Handling, Storage & Transportation (linked to IAQG-9100 §8.5.4)	26
2.1.23	Repair, reliability and availability (linked to IAQG-9100 §8.5.5)	27
2.1.24	Release of products and services (linked to IAQG-9100 §8.6)	28
2.1.25	Control of Non-conforming outputs, warnings/alerts Management (linked to IAQG-9100 §8.7)	33
2.1.26	Monitoring, measurement and Data Control (linked to IAQG-9100 §9.1)	35
2.1.27	Audits, performance evaluation (linked to IAQG-9100 §9.2)	37
2.2	Configuration Management Requirements	37
2.2.01	Control of documented Informations (linked to IAQG-9100 §7.5.3)	37
2.2.02	Identification and Traceability (linked to IAQG-9100 §8.5.2)	38
2.3	Supply Chain Management Requirements	40
2.3.01	Capacity management (linked to IAQG-9100 §8.5.1.3)	40
2.3.02	Transfer of Work (linked to IAQG-9100 §8.1)	42
2.3.03	Delay Management (linked to IAQG-9100 §8.4.1.1)	43
3	Referenced Documents	44
4	Glossary	45

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

5	Contributors	47
6	Approvers	47
7	Record of Revisions	47

1 Introduction

1.1.01 Purpose and Applicability			
QAA Req.No.	Requirements	Applicability	Origin
GQ17-1.1-01-01.02	<p>Purpose and Applicability</p> <p>This directive identifies and defines the set of Generic Supply Chain and Quality Requirements for business with AIRBUS DEFENCE AND SPACE, hereafter also called "Customer", "Purchaser" or "Airbus" that apply to all Suppliers and their lower tiers at any level of the complete supply chain in the commodities "Detailed Parts", "Raw Materials" and "Electronics" for items that are used by the Purchaser</p> <p>(a) for flying products and products ensuring airworthiness</p> <p>(b) for products built for the Purchasers Customers (End-Customers)</p> <p>(c) for other Quality relevant needs of the Purchaser.</p> <p>The applicability does include Proprietary Products (See Note (2)) and procurement through Distributors & Stockists (See Notes (3), (4))</p> <p>At the decision of Airbus Defence and Space, this document can be made applicable in contracts beyond the above perimeter as well, e.g. for services (See Notes (5)) related to the above. Also, they can be made applicable in contracts for Airbus Defence and Space subsidiary companies.</p> <p>Notes:</p> <p>(1) This document shall be used together with specific additional Product / Program Line / Project quality requirements:</p> <p>(i) For any items requiring design activity (e.g. built to spec. for castings, forgings, ...),</p> <p>(ii) For activities which are subjected to Regulations (e.g. FAA / EASA / DERAM / PERAM / etc.),</p> <p>(iii) Whenever such specific additional Product / Program Line / Project quality requirements are contractually streamed down.</p> <p>(2) A manufacturer of proprietary products is a manufacturer whose products are of its own design to a set specification and performance.</p> <p>(3) A Stockist / Distributor is an organization carrying out the purchase, storage, splitting and sale of Standard Parts, Standard Material and Proprietary Products as selling agent for the manufacturer without affecting product conformance.</p> <p>(4) Stockist / Distributors are not authorized to transform (physically or chemically or mechanically...), alter, modify or rework any products without the Purchasers approval.</p> <p>(5) A service (intangible item) carried out on a tangible item.</p>	Supplier	Airbus internal

1.1.02 Application			
QAA Req.No.	Requirements	Applicability	Origin
GQ17-1.1-02-01.02	<p>Evidence of Compliance</p> <p>(a) To establish evidence of the status of compliance to these Generic Supply Chain and Quality Requirements, the Supplier shall complete, sign and return to the Purchaser the contractually Applicable Requirement List (cARL).</p>	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	<p>(b) The Supplier shall submit any proposal of deviation to the Purchaser via the compliance matrix, including the following information:</p> <ul style="list-style-type: none"> (1) requirement identification, (2) description of deviation, (3) rationale for deviation, (4) means of compliance to which the Supplier commits, and as applicable, proposed workaround for the requirements the Supplier cannot commit to, (5) Supplier signature: Name, date and signature. <p>(c) If the proposed deviation is not accepted by the Purchaser, the Supplier shall propose another solution acceptable to the Purchaser.</p> <p>Notes:</p> <ul style="list-style-type: none"> (1) Once agreed, the GSCQR compliance matrix is incorporated in the Contract. (2) By submitting the GSCQR compliance matrix, the Supplier commits to comply to all the corresponding requirements, as well as to implement the mitigation solution, for any deviation, formally agreed by the Purchaser. 		
GQ17-1.1-02-02.02	<p>Conflicting Requirements</p> <p>(a) In case of a conflict between a Product/Program/Project related Requirement and a Generic Supply Chain and Quality Requirement the Product/Program/Project related Requirement shall prevail.</p> <p>(b) All other non conflicting Generic Supply Chain and Quality Requirements shall remain applicable and in force.</p>	Supplier	Airbus internal
GQ17-1.1-02-03.02	<p>Failure to comply</p> <p>If the Supplier fails to comply with the provisions of the applicable requirements, the Purchaser shall be under no obligation to accept delivery of the relevant items.</p>	Supplier	Airbus internal
GQ17-1.1-02-05.02	<p>Government Quality Acceptance</p> <p>For military projects, the following shall apply in addition:</p> <p>The requirements of an order may be subject to Government Quality Acceptance (GQA). For contracts in which GQA is required, the Supplier shall notify his NQAR/NQAA of the relevant Order received from Airbus Defence and Space.</p>	Supplier	Airbus internal
GQ17-1.1-02-04.02	<p>Flow down and fulfilment of Statement of Work/ contractual agreement and associated Purchaser Requirements</p> <p>(a) The Supplier shall ensure that the Purchaser Statement of Work / contractual agreement including Quality management principles and associated requirements, goals and targets are analyzed and flowed down internally and to its Sub-tier Suppliers as far as relevant.</p> <ul style="list-style-type: none"> (1) Note: Required commitment to Quality throughout the entire supply chain is key to the Quality of the product. (2) Note: It is the responsibility of the Supplier to analyze and extract any special requirements, critical elements and key characteristics that must be communicated to lower tiers (3) Note: The distributors working with Components Repair Centers (CRC) must implement a Quality Assurance Plan and flow down to the CRC the Quality Requirements 	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	<p>(b) The Supplier shall ensure that requirements contained in lower tier procurement documents are traceable.</p> <p>(c) The Supplier shall provide the Purchaser on request with the rationale in the case some Purchaser Requirements are not flowed down internally and to its Sub-tier Suppliers.</p> <p>(d) Where made applicable, latest issued program requirements shall be considered regarding production and delivery of the items. (e.g. QAP-J-0-E-1001 for EUROFIGHTER program; PQAR-1 for TORNADO Program)</p>		
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2 Requirements

2.1 Quality Requirements

2.1.02 Interested Parties (linked to IAQG-9100 §4.2)			
QAA Req.No.	Requirements	Applicability	Origin
GQ17-2.1-02-01.02	<p>Interested Parties</p> <p>(a) The organization shall determine the interested parties and respective applicable requirements that are relevant to the quality management system.</p> <p>(b) For any Quality relevant aspects, the Supplier shall contact the Purchaser.</p> <p>(c) Unless specifically requested/agreed by the Purchaser, all documents (e.g. Certificates, FAIs, Test reports) provided to or shared with the Purchaser, and/or used to demonstrate compliance to a requirement shall be in English, available at any time and include the following information:</p> <ol style="list-style-type: none"> (1) Title, reference and version, (2) Supplier logo, name and address, (3) Product or Service description, (4) Signatory's name (or individual, unambiguous and traceable signatory code), (5) Signatory's function when specified (recommended in other cases), (6) Date of signature, (7) In case of revision: identification of what has changed, version number, affected pages/paragraphs/sequences, short description of reasons for revision. <p>(d) The Supplier shall use International System of Units for all data provided unless otherwise specified by the Purchaser.</p> <p>(e) In case the Supplier wants to use digital signature, the Supplier shall obtain formal written approval from the Purchaser in advance and comply with specific rules as defined by the Purchaser.</p>	Supplier	Airbus internal

2.1.04 Quality Management System and its processes (linked to IAQG-9100 §4.4)			
QAA Req.No.	Requirements	Applicability	Origin
GQ17-2.1-	QMS certification	Supplier	Airbus

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

04-01.02	<p>(a) The Supplier shall have and maintain a Quality Management System (QMS)</p> <p>(b) The Supplier shall provide to the Purchaser upon written request the copies of all its quality certificates/approvals, with the associated scope/capability list and the name of the organization which granted them.</p> <p>(c) The Supplier shall provide on request the description and documentation of its QMS (e.g., Quality Manual) including the audit reports from the Certification Body for general assessment purposes</p> <p>(d) The Supplier shall immediately inform Airbus in case of changes, including:</p> <ol style="list-style-type: none"> (1) suspension or withdrawal of its QMS certification. (2) major change to the QMS (e.g. Business scope change) (3) legal entity (4) Company name (5) manufacturing facility address (6) Personnel at key position affecting the fulfilment of the contract/order (7) Enterprise Resources Planning (ERP) (8) Other major changes to the Supplier's Business <p>(e) If requested by Airbus, the Supplier shall use assigned templates or tools to communicate changes.</p>		internal
GQ17-2.1-04-02.02	<p>IAQG 9100-series certification</p> <p>(a) The Supplier shall have and maintain a Quality Management System (QMS) compliant with IAQG (EN/AS/JISQ) 9100 series certified by a Certification Body (CB) accredited through IAQG Industry Controlled Other Party (ICOP) scheme or alternatively certified according to the relevant military or civil aviation standard, e.g. EASA / FAA 21 G for production and EASA / FAA 145 for maintenance.</p> <p>Notes:</p> <ol style="list-style-type: none"> (1) Depending on scope of activities, 9100 series means: 9100 (Aviation, Space and Defense Organizations), 9110 (Aviation Maintenance Organizations) and 9120 (Aviation, Space and Defence Distributors). (2) Only certifications registered in Online Aerospace Supplier Information System (OASIS) are valid (refer to https://iaqg.org/ and https://iaqg.org/tools/oasis/). <p>(b) The Supplier shall:</p> <ol style="list-style-type: none"> (1) grant access to Airbus to the area of OASIS database containing detailed certification related information, (2) provide Airbus on request with any information about the content of the OASIS report. When the OASIS report is not in English, it is the responsibility of the Supplier to translate and submit necessary information in English. 	Supplier	Airbus internal
GQ17-2.1-04-03.02	<p>AQAP 2310 certification</p> <p>The Supplier shall have and maintain a Quality Management System (QMS) compliant with AQAP 2310 and certified by an accredited Certification Body.</p>	Supplier	Airbus internal
GQ17-2.1-04-04.02	<p>ISO 9001 certification</p> <p>The Supplier shall have and maintain a Quality Management System (QMS) compliant with ISO 9001 and certified by an accredited Certification Body.</p>	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

<p>GQ17-2.1-04-05.02</p>	<p>AQAP 2110 certification</p> <p>The Supplier shall have and maintain a Quality Management System (QMS) compliant with AQAP 2110 and certified by an accredited Certification Body.</p>	<p>Supplier</p>	<p>Airbus internal</p>
<p>GQ17-2.1-04-06.02</p>	<p>ISO 17025 certification</p> <p>The Supplier shall have and maintain a Quality Management System (QMS) compliant with ISO 17025 and certified by an accredited Certification Body.</p>	<p>Supplier</p>	<p>Airbus internal</p>
<p>GQ17-2.1-04-07.02</p>	<p>Advanced Product Quality Planning – APQP</p> <p>The Supplier shall:</p> <ul style="list-style-type: none"> (a) fulfill the APQP requirements of the IAQG 9145 standard (EN, AS or equivalent), (b) define an APQP plan to manage end-to-end product/service development, including its Sub-tier Suppliers’ activities, (c) perform risk analyses on the Product Breakdown Structure, identify risks and define mitigation actions, (d) plan the APQP activities and deliverables (Key Business Deliverables - KBD) and ensure milestones consistency with the project schedule, (e) perform regular deliverables assessment and support deliverables assessments performed by the Purchaser, to assure quality and timeliness of deliverables and drive risk mitigation actions (f) provide APQP deliverables status report (using Purchaser specified reporting system) and escalate delays, issues and risks to project objectives (g) for any product and process related modifications, including any Supplier driven Transfer of Work (e.g. transfer from factory A to factory B): <ul style="list-style-type: none"> (1) use decision process as per EN 9145 (or equivalent) to select APQP deliverables (or equivalent) with a particular focus on updating LAI and FAI elements, (2) provide the rationale of the decision to the Purchaser for validation upon request. <p>Notes:</p> <ul style="list-style-type: none"> (1) For Aerospace & Defence industries, the Supply Chain Management Handbook (hyperlink https://iaqg.org/tools/scmh/) is mentioning APQP in chapter 7.2. (2) “Part” defined in the EN 9145 is to be understood as “Product, including Assembly”. 	<p>Supplier</p>	<p>Airbus internal</p>
<p>GQ17-2.1-04-08.02</p>	<p>Requirement Adherence</p> <ul style="list-style-type: none"> (a) The Supplier through its management is responsible for the conformity of the delivered products or services to all requirements and procedures specified in the purchasing documents, drawings and technical documents. (b) This covers also the tasks and operations subcontracted to lower tiers. (c) Any deviations or changes are subject to a formal and traceable request to and formal written approval by the Purchaser prior to being worked and delivered. This need for formal request to and formal prior written approval by the Purchaser also applies to changes in comparison to previous orders/deliveries and it also applies for manufacturers or stockists / distributors of proprietary products. (d) When requested by the Purchaser, the Supplier shall deliver a compliance matrix to the Purchaser's requirements including reference to the evidences. 	<p>Supplier</p>	<p>Airbus internal</p>

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	<p>(e) The evidence of the compliance with all applicable requirements (e.g. Customer specifications, regulations, legal environmental and safety requirements) shall be maintained, readily accessible & retrievable</p> <p>(f) and be disclosed to the Purchaser upon request, if so requested by the Purchaser in the form of copies of the evidence.</p> <p>(g) Under no circumstances shall verbal instructions from the Purchaser changing any aspect of the contract or purchase order or requirements be accepted, regardless of origin.</p>		
GQ-1-04-21.05	<p>Order Notification</p> <p>With each order confirmation the Supplier shall confirm (by providing order confirmation) that the Supplier accept and apply the present "Generic Supply Chain and Quality Requirements" document/ agreement as part of the order.</p>	Supplier	Airbus internal

2.1.05 Responsibilities (linked to IAQG-9100 §5.3)			
QAA Req.No.	Requirements	Applicability	Origin
GQ17-2.1-05-01.02	<p>Organization of Responsibility</p> <p>(a) The Suppliers top management shall ensure implementation of responsibilities according to IAQG 9100 §5.3</p> <p>(b) The Supplier shall have a dedicated organization, with a designated Quality Manager in charge of the completion of the following activities:</p> <ul style="list-style-type: none"> (1) management of the quality aspects of the Project and of the delivered Product or Service for the lifecycle of the Contract, (2) interface with the Purchaser regarding all quality topics, (3) continuous improvement and development initiatives (internal and Sub-tier Suppliers). <p>Note: Assessment / self assessment according to the IAQG AIMM (AEROSPACE IMPROVEMENT MATURITY MODEL) can be helpful to establish a baseline for continuous improvement and development initiatives. For more information, see https://iaqg.org/wp-content/uploads/2021/08/AIMM-introductory-presentation-V1.0-2021-07-27.pdf.</p> <p>(c) The Quality Manager shall be referred to in the Organization Breakdown Structure (OBS) if existing, or in the Quality Assurance Plan (QAP).</p>	Supplier	Airbus internal
GQ17-2.1-05-02.02	<p>Organization of Responsibility - Additional requirement for military projects</p> <p>The Supplier shall implement responsibilities in line with AQAP 2310</p>	Supplier	Airbus internal

2.1.06 Reporting (linked to IAQG-9100 §5.3)			
QAA Req.No.	Requirements	Applicability	Origin
GQ17-2.1-06-01.02	<p>Organization of Reporting</p> <p>The Suppliers top management shall ensure reporting according to IAQG 9100 §5.3</p>	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

GQ17-2.1-06-02.02	<p>Organization of Reporting - Additional requirement for military projects</p> <p>The Supplier shall implement reporting in line with AQAP 2310</p>	Supplier	Airbus internal
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2.1.07 Work delegation (linked to IAQG-9100 §5.3)			
QAA Req.No.	Requirements	Applicability	Origin
GQ17-2.1-07-01.02	<p>Work Delegation</p> <p>(a) Any assignment of product assurance tasks (e.g. verification tasks) by Supplier to sub-tiers shall be done in a documented and controlled way.</p> <p>(b) The requirements shall be defined and documented in the contract or equivalent documentation</p> <p>(c) The sub-contracting of the work in total or partial by the supplier to a third party shall require the prior written consent of the Purchaser (and/or End Customer and/or regulatory authorities if required by the contract).</p> <p>(d) The Supplier shall retain responsibility towards the Purchaser for its lower level suppliers.</p>	Supplier	Airbus internal

2.1.08 Risk & Opportunity Management (linked to IAQG-9100 §6.1)			
QAA Req.No.	Requirements	Applicability	Origin
GQ17-2.1-08-01.02	<p>Risk Management</p> <p>The Supplier shall</p> <p>(a) plan, implement and manage a process for addressing the risks of failing to meet requirements applicable to operational activities, in a manner appropriate to the Supplier and the products and services, as defined in document EN 9100 § 8.1.1.</p> <p>(b) establish a risk register which shall at least specify for each risk the description, probability of occurrence, severity/criticality, preventive/corrective action & status.</p> <p>(c) manage industrial change according to its risk analysis and according to Purchaser instructions, if any.</p>	Supplier	Airbus internal
GQ17-2.1-08-02.02	<p>Product/Service continuity</p> <p>The Supplier shall implement a process to guarantee the continuity of its deliveries and repair capability and capacity for all product/service items, that covers:</p> <p>(a) Preventing discontinuity (sustainable design, component/tools selection, processes)</p> <p>(b) Predicting/detecting discontinuity (surveillance, survey, items & sub-Suppliers discontinuity ...)</p> <p>(c) Communication to Purchaser as soon as discontinuity information is known by the Supplier.</p> <p>(d) Resolving (contingency plan) discontinuity issue:</p> <p>(1) the Supplier may propose, with Purchaser written approval prior implementation, a configuration modification (OCR update)</p> <p>(2) the new configuration shall be compatible with previous configurations (e.g. according to</p>	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	FFF requirements), and its qualification/validation shall be performed in agreement with the purchaser.		
GQ17-2.1-08-03.02	<p>Management of Procurement Risk</p> <p>(a) The Supplier shall conduct and maintain a risk analysis of its sub-tiers and list the high-risk sub-tiers and the level of the associated monitoring actions</p> <p>(b) The Supplier shall manage the risk of counterfeit, bogus or already used parts in line with IAQG (EN/AS/JISQ) 9100 §8.1.4</p> <p>(c) The Supplier shall ensure that materials/parts/services are procured according to the required Airbus approval and from authorized Suppliers.</p> <p>(d) When materials/parts are not directly procured from the manufacturer, the Supplier shall procure parts/material only from distributors that are:</p> <ul style="list-style-type: none"> (1) IAQG 9120 (EN/AS/..) certified unless specifically authorized by the Purchaser in writing; (2) Authorized by the Original Equipment Manufacturer (OEM) 	Supplier	Airbus internal
GQ17-2.1-08-04.02	<p>Management of Procurement Risks, additional requirements for MILITARY AIR SYSTEMS</p> <p>For deliveries to our Program Line MILITARY AIR SYSTEMS, the following shall apply in addition:</p> <p>(a) All items must be manufactured or procured only from OEMs or OEM Approved Manufacturers (approved sources).</p> <p>(b) The Supplier must ensure and is fully responsible that the parts ordered have been qualified according to the applicable standards, (e.g. from the Purchaser, a certification body or an authority) and that all necessary construction documents are available in the current version for the production of the ordered products.</p> <p>(c) When the product to be procured belongs to a specification which has associated a QPL (Qualified Product List) the manufacturer must be in that list as well as must be a Purchasers approved manufacturer. Manufacturer's order/contract review is responsible for assuring this approval prior to sale.</p> <p>(d) When the purchase order document specifies one or more AUTHORIZED MANUFACTURERS for a specific product/item, these manufacturers shall be the only acceptable manufacturers.</p> <p>(e) Distributors are only authorized to send products to the Purchaser procured from Purchaser's approved manufacturers.</p>	Supplier	Airbus internal
GQ17-2.1-08-05.02	<p>Management of Procurement Risks, additional requirements for SPACE</p> <p>For EEE (Electric, Electro-mechanic, Electronic) parts, the Supplier shall apply counterfeit parts prevention according to ECSS-Q-ST-60 or SAE AS 5553.</p>	Supplier	Airbus internal
GQ-1-08-03.05	<p>Tactical Improvement</p> <p>In case a systematic or process issue is identified within Supplier scope and such issue cannot be solved by operational measures only, a Tactical Improvement may be launched by the Purchaser.</p>	Supplier	Airbus internal

2.1.09 Resources (linked to IAQG-9100 §7.1)			
QAA Req.No.	Requirements	Applicability	Origin

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

<p>GQ-1-09-08.05</p>	<p>Quality Assurance</p> <p>The Supplier shall allocate appropriate QA resources and focal point.</p> <p>The QA organization of the Supplier shall:</p> <ul style="list-style-type: none"> (a) Review the contract requirement and manage quality assurance measures to ensure requirements compliance (e.g. Quality Assurance plan, Audits & Assessment actions plan ...) (b) Review and approve test procedures and reports (e.g. acceptance tests, Critical Items...) (c) Review and approve maturity gates/reviews (e.g. TRL, MRL, SRL, PDR, CDR ...) (d) Sign compliance statements and conformity certificates (e) Participate in the approval and the selection of procurement sources 	<p>Supplier</p>	<p>Airbus internal</p>
<p>GQ-1-09-06.05</p>	<p>Qualification of staff</p> <ul style="list-style-type: none"> (a) The Supplier shall define the staff training plan to ensure the quality and sustainability of the Project (e.g. theoretical, specific, practical or refresher trainings). (b) Evidence regarding the qualification of Supplier' staff shall be documented, maintained and submitted to the Purchaser on request. 	<p>Supplier</p>	<p>Airbus internal</p>
<p>GQ-1-09-04.05</p>	<p>Details for Inspection Staff</p> <p>On request of the Purchaser, the Supplier shall provide the following information on the Supplier's inspection staff:</p> <ul style="list-style-type: none"> (a) Name (b) Qualification (c) Special qualifications/ Trainings (d) Scope of authorization (e) Date of the first issue of authorization (f) Period of validity 	<p>Supplier</p>	<p>Airbus internal</p>
<p>GQ17-2.1-09-03.02</p>	<p>Ethical Behavior and Human Factor</p> <p>The Supplier shall ensure that an awareness to the importance of</p> <ul style="list-style-type: none"> (a) ethical behavior based on "Airbus Core Values" (information available on the Airbus.com homepage, at the time of writing this document under https://www.airbus.com/en/who-we-are/we-are-airbus/our-values) <ul style="list-style-type: none"> (1) Customer Focus (2) Integrity (3) Respect (4) Creativity (5) Reliability (6) Teamwork (b) and "Suppliers Code of Conduct" (available on the Airbus.com homepage, at the time of writing this document under https://www.airbus.com/en/be-an-airbus-supplier) which defines requirements on <ul style="list-style-type: none"> (1) Compliance with Laws (2) Human Rights 	<p>Supplier</p>	<p>Airbus internal</p>

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	<p>(3) Employment Practices</p> <p>(4) Anti-Corruption</p> <p>(5) Conflict of Interest</p> <p>(6) Maintain Accurate Records</p> <p>(7) Information Protection</p> <p>(8) Environment, Health, and Safety</p> <p>(9) Global Trade Compliance</p> <p>(10) Ethics Program Expectations</p> <p>(c) and human factor (also and especially for the Maintenance & Repair environment) are provided to its staff</p>		
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2.1.10 Quality Assurance Records (linked to IAQG-9100 §8.1)			
<i>QAA Req.No.</i>	<i>Requirements</i>	<i>Applicability</i>	<i>Origin</i>
GQ17-2.1-10-03.02	<p>Quality records storage and retention</p> <p>Quality records (e.g. qualification evidences) shall be stored in safe conditions which prevent alteration, loss or deterioration and they shall be retained over the whole product/project life cycle and for a period of at least 15 years, if not otherwise agreed in writing between Purchaser and Supplier.</p>	Supplier	Airbus internal
GQ17-2.1-10-05.02	<p>Quality Records Retention - additional requirements</p> <p>For deliveries to the Program Line MILITARY AIR SYSTEMS, the following shall apply in addition: First Article Inspection and Qualification Reports shall be retained during the operational life of the product plus three years.</p>	Supplier	Airbus internal
GQ17-2.1-10-04.01	<p>Unability to Retain Quality Records</p> <p>(a) The Supplier shall consult the Purchaser if such records can not be retained as required.</p> <p>(b) In the event of termination of the contract or insolvency, all quality records applicable to the purchase order / contract must be surrendered to the Purchaser.</p>	Supplier	Airbus internal

2.1.11 Quality Planning (e.g. QAP) (linked to IAQG-9100 §8.1)			
<i>QAA Req.No.</i>	<i>Requirements</i>	<i>Applicability</i>	<i>Origin</i>
GQ-1-11-16.05	<p>Quality Assurance Plan</p> <p>(a) The Supplier shall provide a Quality Assurance Plan to the Purchaser that describes in detail all aspects ensuring adequate quality requirements are established and achieved during all contract phases.</p> <p>(b) The Quality Assurance Plan, and any update of it, shall be submitted by the Supplier to the Purchaser for acceptance.</p>	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	<p>(c) The Quality Assurance Plan shall cover, at least, the following aspects: Project Quality organization and activities, Quality recording, monitoring and surveillance activities (including supply chain), issue management.</p> <p>(d) The Quality Plan shall provide objective evidence of comprehensive risk & opportunity management.</p> <p>(e) The Quality Plan shall provide the way to control & maintain the qualification of the staff</p> <p>Note : This Supplier's QAP should be in line with ISO 10005 (Guidelines for quality plans), unless specifically agreed with the Purchaser</p>		
GQ-1-11-17.05	<p>Product/Service Assurance Plan</p> <p>(a) The Supplier shall establish the Product/Service Assurance Plan and submit it for approval to the Purchaser.</p> <p>(b) It shall ensure adequate product/service assurance requirements are established and achieved during all contract phases, it covers (list not exhaustive):</p> <ul style="list-style-type: none"> (1) The product/service quality assurance, reliability, safety, parts/materials, software, process, configuration management. (2) The material/part/process criticality, testing, qualification, application, acceptance status (3) The list and management of all required reviews and documentation (Development/design maturity, procurement, qualification, testing, acceptance, manufacturing, NC, change/modification, delivery authorization...) (4) The Identification of instances where the Purchaser approval/review/information is required. 	Supplier	Airbus internal
GQ17-2.1-11-01.02	<p>FMEA - Failure Mode and Effect Analysis</p> <p>(a) The Supplier shall perform Failure Mode and Effect Analysis (FMEA) in accordance with SAE J 1739 to assess potential design/process failure modes linked to the product, processes or service, including consideration of experiences from similar products, processes or services, in order to mitigate the associated risks.</p> <p>(b) it shall identify and rank the potential failure modes and define and prioritize risk mitigation actions (e.g. critical items & key characteristics monitoring)</p>	Supplier	Airbus internal
GQ-1-11-18.05	<p>Readiness levels</p> <p>(a) The Supplier shall have processes to manage for the product the Readiness Level of :</p> <ul style="list-style-type: none"> (1) design/technologies (TRL) (2) manufacturing (MRL) (3) maintenance and Service (SRL) <p>(b) The Supplier shall evaluate associated risks and ensure that the products/services are mature and validated for their intended use.</p>	Supplier	Airbus internal
GQ17-2.1-11-02.02	<p>Control Plan</p> <p>(a) The Supplier shall have a Control Plan that identifies and defines all methods used for control, inspection and monitoring of product and process characteristics</p> <p>(b) it shall take into account</p> <ul style="list-style-type: none"> (1) experiences from similar processes and products and (2) the output from FMEA 	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	<p>(3) the Critical Items & Key Characteristics list</p> <p>(c) It shall clearly identify Where, When, How and Who to perform controls</p> <p>(d) The scope shall include control of the sub-tiers' processes and product.</p>		
GQ-1-11-06.05	<p>Inspection and tests</p> <p>Inspection and tests shall be defined and implemented at appropriate steps (manufacturing, assembly and integration, operation...) in order to provide assurance for correct processing, demonstrate system conformance and prevent unrecoverable or costly nonconformance's.</p>	Supplier	Airbus internal
GQ17-2.1-11-04.02	<p>Monitor test activities</p> <p>The Supplier organization shall define, within the test plan, the methods to evaluate and monitor the performance of test activities, to ensure the adherence to the test procedures, and that any deviations are properly documented and treated.</p>	Supplier	Airbus internal
GQ17-2.1-11-03.01	<p>Work Environment</p> <p>The Supplier shall</p> <p>(a) determine and implement the work environment needed to achieve conformity to Product requirements,</p> <p>(b) define and maintain a dedicated work environment procedure.</p> <p>(c) ensure that items not required for the operation involved are removed from work operation areas.</p> <p>Note: Factors that may affect the conformity of the Product include cleanliness, temperature, humidity, ventilation, lighting (including ultra-violet), space/access, noise, air pollution, vibrations/shocks, dust protection and electrostatic discharge protection.</p>	Supplier	Airbus internal
GQ-1-11-14.05	<p>Formal acceptance process</p> <p>(a) The Supplier shall establish in agreement with the purchaser, a formal acceptance process for all deliverable items, at any contractual level, to ensure that conformance of the items to be delivered is fully assessed and documented.</p> <p>(b) The Purchaser/Customer has the right to witness product/service acceptance tests at Supplier's facility.</p> <p>(c) The required documents (e.g. acceptance test protocols) shall be submitted in advance, providing sufficient time for review, and shall be available at the time of acceptance.</p>	Supplier	Airbus internal
GQ17-2.1-11-06.02	<p>Certificates for Procured Parts</p> <p>(a) All procured parts and materials have to be accompanied by respective certificates.</p> <p>(b) Certificates have to be archived by the Supplier and be made available to the Purchaser upon request.</p>	Supplier	Airbus internal
GQ17-2.1-11-07.02	<p>Certificates for Procured Parts - additional requirement</p> <p>For deliveries to the Program Line SPACE, the following applies in addition:</p> <p>(a) Required certificates can be according to EN 10204 certificate 2.1 (e.g. for non structural parts and materials) and certificate 3.1 (e.g. for structural parts and materials).</p> <p>(b) If not clearly defined by specific requirements, the Supplier shall clarify with the Purchaser.</p>	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

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2.1.12 Design and development of products and services (linked to IAQG-9100 §8.3)			
QAA Req.No.	Requirements	Applicability	Origin
GQ-1-12-03.05	<p>Program Management Plan</p> <p>The Supplier shall establish the Program Management Plan and submit it for approval to the Purchaser. It shall include and describe (list not exhaustive):</p> <ul style="list-style-type: none"> (a) The PBS/WBS/OBS (b) Detailed Planning, Schedule, Deliveries, Reviews/Milestones and critical paths. (c) Action Management, incl. actions for regulatory and legal requirements compliance (d) List of subcontractors and subcontracted Items (hardware and software) (e) Risk management and mitigation plan 	Supplier	Airbus internal
GQ-1-12-04.05	<p>Work Breakdown Structure / Work Packages</p> <p>The Supplier shall establish a Work Breakdown Structure (WBS) that defines each Work Package (WP) and corresponding Work Package Description which details:</p> <ul style="list-style-type: none"> (a) The inputs and outputs, forming interfaces with other Work Packages. (b) The tasks accomplishment/deliverables resulting in the supply of products or documents, (c) The required support functions/resources to produce the deliverable end items (incl. test functions) (d) The planning constraints (duration, starting/intermediate/finishing event) 	Supplier	Airbus internal
GQ17-2.1-12-01.02	<p>Critical Items & Key characteristics</p> <ul style="list-style-type: none"> (a) The Supplier organization shall identify, evaluate and control the critical items and key characteristics linked to the product, processes or service, in line with EN 9103. (b) All related testing activities shall be identified and defined in the control plan and shall be approved by QA (c) Before production launch, the producing organization shall complete initial process capability studies for Product and Process Key Characteristics (KC). <p>Note: Capability studies should take into consideration the effects of people, machines, tools, methods, materials, measurements and environmental conditions.</p> <ul style="list-style-type: none"> (d) All related testing activities shall be verified by performing a Measurement System Analysis (MSA) in accordance with ASTM E 2782 and monitored with Statistical Process Control or equivalent methods. <p>Note: Applicable MSA studies shall be established using various methods (e.g. bias studies, Gage Repeatability and Reproducibility (Gage R&R), repeatability study, measurement uncertainty analysis, attribute agreement analysis).</p> <ul style="list-style-type: none"> (e) Self-inspection by operator shall not be considered sufficient for critical characteristic inspections. 	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

2.1.13 Control of externally provided processes, products and services (linked to IAQG-9100 §8.4)			
QAA Req.No.	Requirements	Applicability	Origin
GQ17-2.1-13-01.02	<p>Sub-Tiers Selection</p> <p>(a) The Supplier shall document and maintain results of its Sub-Tiers selection process.</p> <p>(b) The Suppliers shall evaluate and select Sub-Tiers based on their ability to supply/manufacture/process in accordance with the Purchasers stated requirements.</p> <p>Note:</p> <p>(1) Lower-tier Suppliers/subcontractors involved in special processes shall be capable of demonstrating the ability to meet the Purchasers requirements for special processes; including key parameters and process control.</p> <p>(2) For non-NEO (non - National Eyes Only) special processes, lower-tiers with Nadcap accreditation may be considered preferred partners.</p> <p>(3) Where Nadcap process certification is required by Airbus Defence and Space in item related specific requirements, Nadcap certification is mandatory.</p> <p>(c) Selection criteria shall be defined and records of the results and of any actions taken shall be presented to the Purchaser during audits/assessment.</p> <p>(d) The Purchaser reserves the right to specify or reject sub-Suppliers or define additional requirements for the selection process. This does not relieve the Supplier from its responsibility for the conformity of the delivered products or services to all requirements and procedures specified by the Purchaser.</p> <p>(e) Procurement of parts from Manufacturers with FAA PMA approvals must be approved by the Purchaser in writing during the quote phase.</p> <p>(f) The Supplier QA function shall participate in the approval and the selection of procurement sources.</p>	Supplier	Airbus internal
GQ17-2.1-13-02.02	<p>Sub-Tiers Monitoring</p> <p>(a) The Supplier shall exercise surveillance (continuously control/monitor) over all activities carried out by lower tier Suppliers.</p> <p>(1) The control of procurement sources by the Supplier includes surveillance of their lower tier Suppliers (i.e. Suppliers of the Supplier).</p> <p>(2) The Supplier shall check any associated certifying paperwork from his lower tier Suppliers for validity (e.g. QM-Certificate / Approvals, Capability List).</p> <p>(3) The surveillance may include mandatory inspection points.</p> <p>(b) The Supplier shall provide evidence that audits are performed for its sub-Suppliers when:</p> <ul style="list-style-type: none"> - the sub-Suppliers are not certified according to the Purchasers requirements AND - the parts themselves are under EN 9100 / AQAP 2310 / ... regulation. <p>(c) The Supplier shall obtain the approval of the Purchaser in writing before using Sub-tiers which do not meet the Quality Management System certification requirements specified in this document.</p> <p>(d) The Purchaser reserves the right to audit any lower tiers involved in the supply of products/services procured under the Airbus Defence and Space purchase order.</p>	Supplier	Airbus internal
GQ17-2.1-	Sub-Tier Information to Purchaser	Supplier	Airbus

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

13-03.02	<p>(a) The Supplier shall inform the Purchaser of the list of Supplier's sub-tiers which deliver</p> <ul style="list-style-type: none"> (1) products/services with critical items and key characteristics, (2) significant work content, (3) design, (4) immature technical solutions or (5) where External Provider performance is unknown or causes concern. <p>(b) The Supplier shall provide this information before the work starts at the External Provider.</p> <p>(c) The Supplier shall on request provide the Purchaser with a copy of any subcontracts, orders, related contractual documents and their modifications, for products related to the contract.</p> <p>(d) The Supplier shall notify the Purchaser if an externally provided product has been identified as involving risk (e.g. is rejected) or supplied by an External Provider whose selection or subsequent performance has been identified as involving risk.</p>		internal
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2.1.14 Type and extent of control (linked to IAQG-9100 §8.4.2)		
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2.1.15 Access rights (linked to IAQG-9100 §8.4.3)			
QAA Req.No.	Requirements	Applicability	Origin
GQ17-2.1-15-01.02	<p>Access Rights</p> <p>(a) The Supplier shall allow the Purchaser, its Customers, their representatives, governmental (e.g. GOAR) and other involved authorities, to proceed with audit/ assessment/ visit of the Supplier and/ or any Sub-Supplier involved in the Project</p> <p>(b) Such audit/ assessment/ visit may occur at reasonable scheduled intervals agreed by the Parties, or be triggered by the detection of a severe problem, or in case of special process qualification</p> <p>(c) Such audit/assessment/visit implies that the Supplier shall:</p> <ul style="list-style-type: none"> (1) grant the Purchaser reasonable access to business premises and product and Project related documentation (e.g. QA, safety, certification). (2) make available a duly qualified member of its staff for the duration of the audit/assessment/visit. <p>(d) The Supplier shall also grant the Purchaser the right to perform inspections (Source inspections, e.g. visual inspection of part/assembly or final inspection before delivery) and to attend to the Supplier development and production related reviews (e.g. PDR, CDR, etc.).</p> <p>(e) Purchaser activities at the Supplier premises or at any sub-tiers facilities do not relieve the Supplier from its responsibilities (e.g. Source inspection does not relieve the Supplier from its obligation to perform its own inspections and controls and to attest the conformity of the delivered product.)</p>	Supplier	Airbus internal
GQ17-2.1-15-02.02	<p>Standards availability</p> <p>When requested by the Purchaser, the Supplier shall make available</p> <ul style="list-style-type: none"> (a) company in-house standards & documentation for Purchaser review when these are applicable to the Project. (b) For Source inspection, these may be for example: 	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	<ul style="list-style-type: none"> (1) AIRBUS DEFENCE AND SPACE purchase order; (2) Applicable drawings and specifications; (3) Manufacturing traveler/route card; (4) Associated further processing release documentation; (5) Purchase orders and requirements passed down to lower tier Suppliers; (6) Results of any tests including specimens and samples; (7) The certification of lower-tier Suppliers/subcontractors, ... 		
GQ-1-15-08.05	<p>Sufficient evidence</p> <p>(a) In case the Supplier does not grant access to an inspection of classified manufacturing methods or other restricted industrial information, the Supplier shall provide sufficient evidence for compliance to the Purchaser's requirements.</p> <p>(b) In case of restricted / secret topics the Purchaser shall be informed by the Supplier in advance to a visit/audit/ etc.</p>	Supplier	Airbus internal

2.1.16 Production and Service Provision (linked to IAQG-9100 §8.5)			
QAA Req.No.	Requirements	Applicability	Origin
GQ-1-16-09.05	<p>Workmanship standards</p> <p>The Supplier shall comply with applicable workmanship standards and regulation throughout all phases of production/service provision, assembly and integration, to ensure acceptable and consistent workmanship quality levels.</p>	Supplier	Airbus internal
GQ-1-16-08.05	<p>Documents and instruction</p> <p>The Supplier shall provide detailed support documents and instructions, such as datasheet, drawings, user manual, maintenance manual, procedure and operating instruction sheets, in order to enable operations to be correctly performed.</p>	Supplier	Airbus internal
GQ17-2.1-16-03.02	<p>Changes and Deviations</p> <p>(a) The Supplier shall give the Purchaser advance notice of</p> <ul style="list-style-type: none"> (1) changes to its manufacturing and assembly processes and conditions, including the operator (where applicable – if the process is operator dependent) (2) changes on materials or parts incorporated in its products, (3) relocation of production plants, transfer of work or new machine. (4) changes made to the methods, facilities, procedures, tools, hardware, software or quality control for the inspection, testing or qualification of the products (5) any other significant QA measures like design, specifications/properties definition, packaging, transportation changes, ... (6) any shelf life extensions (7) changes related to supply chain topics (e.g. new sub-tier, ...) <p>(b) The Supplier shall have in place the provisions for the identification and recording with rank</p>	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	<p>or date of application.</p> <p>(c) Any deviations or changes are subject to a formal and traceable request to and formal acknowledgement or approval by the Purchaser prior to being worked and delivered. This need for formal request to and formal acknowledgement or approval by the Purchaser also applies to changes in comparison to previous orders/ deliveries and it also applies for manufacturers or stockists/ distributors of proprietary products.</p> <p>(d) On changes, AIRBUS DEFENCE AND SPACE may ask for a specific review/audit. If a change implemented by the Supplier affects the qualification status, then a new full or partial qualification may be required and shall be undertaken under the Supplier's responsibility, depending on the qualification status of the product involved. The new total or partial qualification plan shall be submitted to AIRBUS DEFENCE AND SPACE for formal approval.</p> <p>(e) If requested by Airbus, the Supplier shall use assigned templates or tools to communicate changes.</p> <p>Note: "Advance" means that the Supplier shall give the Purchaser sufficient time to check whether such changes may have a detrimental effect on the products/services.</p>		
GQ17-2.1-16-04.02	<p>Conforming Items</p> <p>The Supplier</p> <p>(a) shall inspect or otherwise verify that all products or services, including those components procured from or furnished by Subcontractors or Suppliers, shall comply with the requirements of the Purchaser prior to shipment</p> <p>(b) is responsible for all tests and inspections of the product during receiving, manufacture and Supplier's final inspection</p> <p>(c) shall ensure that only conforming items are released and used</p> <p>(d) shall ensure segregation of conforming and non-conforming parts</p> <p>(e) shall ensure items not required for an operation involved are segregated and removed from work operation areas</p> <p>(f) agrees to furnish copies of test and/or control data upon request to the Purchaser.</p>	Supplier	Airbus internal
GQ17-2.1-16-14.02	<p>Receiving Inspection Activities</p> <p>Receiving inspection activities shall include:</p> <p>(a) verification of packaging conditions and status of environmental sensors and seals,</p> <p>(b) visual inspection of delivered items,</p> <p>(c) verification of correct identification and, where appropriate, configuration identification for conformance to ordering data,</p> <p>(d) verification of evidence of inspection and tests performed by the Supplier and associated documentation,</p> <p>(e) verification of performance of Supplier's source inspection, if required,</p> <p>(f) performance of inspections and tests on selected characteristics of incoming supplies or test specimens submitted with supplies,</p> <p>(g) identification of the shelf life of limited-life items,</p> <p>(h) identification of the inspection status and physical separation of the supplies in the receiving inspection area according to the following categories:</p> <p>(1) items without completed receiving inspection;</p> <p>(2) conforming items;</p> <p>(3) non-conforming items.</p>	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	<ul style="list-style-type: none"> (i) prevention of unauthorized use of uninspected items, (j) identification of the items to be released for production with conformance status and traceability data to be recorded in manufacturing documents, (k) maintenance of receiving inspection records (l) validation of test report data 		
GQ17-2.1-16-15.02	<p>Information for receiving inspection</p> <p>The following shall be made available to the receiving inspectors: procurement documents, specifications, drawings and any other document relevant to incoming supplies as required in the procurement documents.</p>	Supplier	Airbus internal
GQ-1-16-34.05	<p>Receiving inspection records</p> <ul style="list-style-type: none"> (a) The Supplier shall verify the conformity of purchased products/services with the specified requirements. (b) The Supplier shall maintain receiving inspection records to ensure traceability and the availability of historical data to monitor its Supplier performance and quality trends (on time delivery, on quality delivery...). 	Supplier	Airbus internal
GQ17-2.1-16-08.02	<p>Test Facilities, Equipment and Techniques</p> <p>The Supplier shall ensure that</p> <ul style="list-style-type: none"> (a) its test facilities and systems, either internal or external, are <ul style="list-style-type: none"> (1) suitably validated to perform the tests to be conducted (2) compliant to specified standards and requirements. (b) test equipment is designed in such way that its correct operation can be verified during operation without having to proceed it to the test item. (c) for computer-aided testing techniques, that test systems and respective software, configuration and data are validated prior to use, and regularly controlled. 	Supplier	Airbus internal
GQ17-2.1-16-09.02	<p>Test Procedures</p> <ul style="list-style-type: none"> (a) Test procedures shall include, as a minimum: <ul style="list-style-type: none"> (1) scope of the test, including the identification of the requirement being verified, (2) identification of the purpose of the test, (3) applicable documents, with their revision status, (4) test flow, (5) test organization, (6) test conditions, (7) test specimen, test equipment and set-up, (8) step-by-step procedure, including definition of specific steps to be witnessed by QA personnel, (9) identification, which testing activities or results are to be subject to QA /PA verification (10) recording of data, (11) pass or fail criteria and test data evaluation requirements, and 	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	<p>(12) guidelines or criteria for deviation from test procedure and for retest.</p> <p>(b) The QA organization of the Supplier shall review and approve test procedures.</p> <p>(c) Testing activities or results to be subject to QA /PA verification shall be identified as such in the relevant test procedure.</p>		
GQ17-2.1-16-16.02	<p>Operation safety</p> <p>(a) The Supplier shall manage the control of hazardous operations e.g. test activity.</p> <p>(b) Where safety of personnel or damage to items or associated test equipment is possible, QA/PA function must have the authority to stop the test.</p>	Supplier	Airbus internal
GQ17-2.1-16-11.02	<p>Test Reports</p> <p>(a) The Supplier shall ensure that all tests are comprehensively documented in test reports and, when not defined differently in item specific requirements, that these include, as a minimum:</p> <ul style="list-style-type: none"> (1) reference to the applicable test procedure and description of the deviations from it during the actual testing, (2) test data records and evaluation and (3) summary of test results. (4) the description of the item/part tested, its configuration/version and identification numbers <p>(b) The Supplier QA organization shall review and approve test reports.</p>	Supplier	Airbus internal
GQ17-2.1-16-13.02	<p>Statistical Methods</p> <p>(a) Use of Statistical sampling inspection is subject to formal request to and formal approval by the Purchaser before implementation.</p> <p>(b) Statistical sampling inspection shall not be permitted on a process until the reliability of the process is confirmed by statistical results over a sufficient period of production.</p> <p>(c) Frequency of inspection shall be determined by process capability and process control.</p> <p>(d) The organization shall perform Process Capability in accordance with ISO 3534-2 standard in combination with the methods in one of the following groups of documents:</p> <ul style="list-style-type: none"> (1) ANSI/ASQC B1, ANSI/ASQC B2, and ANSI/ASQC B3; (2) ISO 11462-1 and ISO 11462-2 (3) JISZ9020-1, JISZ9021, JISZ9041-1, JISZ9041-2, JISZ9041-3, JISZ9041-4, and JISZ9041-5. 	Supplier	Airbus internal
GQ17-2.1-16-17.02	<p>Statistical Methods additional requirements</p> <p>The following applies in addition for e.g. deliveries to the Program Line SPACE:</p> <p>If the drawing, purchase order or procurement specifications require statistical processing to demonstrate command of the process, the Supplier must submit a written procedure to the Purchaser for approval. Statistical processing contributing to command of the process may be:</p> <ul style="list-style-type: none"> (a) Selection and verification of key characteristics (b) Measuring the capability of the process (c) Statistical management of the process (d) Experimental design 	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

2.1.17 First Article Inspection (linked to IAQG-9100 §8.5.1)			
QAA Req.No.	Requirements	Applicability	Origin
GQ17-2.1-17.02	<p>FAI - First Article Inspection</p> <p>(a) The Supplier shall establish and implement a FAI process. It shall be managed according to IAQG 9102, unless otherwise specified by the Purchaser.</p> <p>(b) The Supplier shall perform FAI :</p> <ol style="list-style-type: none"> (1) for any new product/service introduction (2) in case of change affecting fit, form or function (e.g. design/material, manufacturing source, process or tooling, control/inspection...) (3) in case of event or production disruption that may adversely affect manufacturing. (4) In case of periodical FAI request <p>(c) The Supplier shall, prior to the FAI, ensure that all its pre-requisites are fulfilled (e.g. Design completed & drawing released; manufacturing/inspection processes qualified, instructions approved/released and industrial means verified; sub-tiers FAI Reports & deliverables obtained & verified)</p> <p>(d) The Supplier shall request purchaser approval in advance for any exception (such as partial FAI, FAI not performed on the first item but on a later repetition, or FAI validation by families...)</p> <p>(e) The Supplier shall allow the Purchaser and/or representatives to attend FAI reviews at Supplier's facility, and give advance notification. At this FAI, parts characteristics may be re-checked.</p> <p>(f) The Supplier shall send the first article inspection report in advance to the Purchaser for evaluation and approval. The Supplier shall then provide to the Purchaser the first articles (clearly marked as first articles) and the signed and fully traceable first article inspection report for evaluation/approval.</p> <ol style="list-style-type: none"> (1) The report shall provide evidence that item characteristics are identified, checked with defined method and acceptability criteria and are conform (as according to engineering documentation, drawings/models, process specifications, specific requirements...). (2) The report shall include all required information such as drawings/models (incl. test sample location), test reports, process documentation and specific evidences (e.g. dimensions, measurements, analysis, qualification tests, manufacturing reports, part/material certificates from qualified and customer approved sources, personal qualification for special processes, appearance report for aesthetic requirements...). 	Supplier	Airbus internal

2.1.18 Measurement, Metrology & Calibration (linked to IAQG-9100 §8.5.1)			
QAA Req.No.	Requirements	Applicability	Origin
GQ17-2.1-18-01.02	<p>Measurement, Metrology & Calibration</p> <p>The Supplier shall</p> <ol style="list-style-type: none"> (a) implement measurement and calibration systems according to ISO 10012. (b) guarantee: <ol style="list-style-type: none"> (1) the valid calibration status of all their measurement tools/means 	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	<p>(2) the calibration status of all measurement tools/means are recorded and controlled</p> <p>(3) the calibration are performed by accredited laboratories.</p> <p>(b) when an item of measuring equipment fails calibration, advise the Purchaser of the impact of the failure on previous measuring results where this affects delivered products or verification, validation and acceptance results. The Purchaser may request that measurements taken shall be repeated with calibrated equipment.</p> <p>(c) when requested by the Purchaser validate the Special to Type Test Equipment (STTE).</p> <p>(1) The Purchaser or his representatives shall have the right to witness the validation at Supplier's facility.</p> <p>(2) Therefore the Purchaser shall be invited with at least 2 weeks notification period.</p>		
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2.1.19 Validation and control of special processes (linked to IAQG-9100 §8.5.1)			
QAA Req.No.	Requirements	Applicability	Origin
GQ17-2.1-19-01.02	<p>Purchaser Process Specifications</p> <p>Mandatory process specifications prescribed by the Purchaser must not be replaced by others without Purchaser approval in writing.</p>	Supplier	Airbus internal
GQ17-2.1-19-06.02	<p>Special processes/services qualification</p> <p>(a) The Supplier shall define the process instructions and perform and record the qualification tests for special processes (e.g. heat-treatment, surface treatment, shot peening, welding, forging/casting, NDT). If required, the supplier shall provide the qualification reports and test samples to the purchaser for validation and/or counter-testing (e.g. forging/casting).</p> <p>(b) The Supplier shall request authorization to the Purchaser, and get approval in writing, prior to any change on special process or related specification, test or qualification.</p> <p>(c) The Supplier shall ensure that the Supplier and its Sub-Tiers are qualified by the Purchaser and/or agreed certifying organization (e.g. NADCAP) and provide to the purchaser the proof of qualification compliance, listing the qualified organization/site performing the special processes applied to the product/service</p> <p>(d) Once qualification status is completed and approved and FAI has been approved, for the item series production, the supplier shall accomplish the tests defined in the item specific requirements file and send the test report and the defined test samples to the Purchaser for validation and/or counter-testing.</p>	Supplier	Airbus internal
GQ-1-19-06.05	<p>Selection of the test method</p> <p>(a) The Supplier shall ensure that proper selection of the non-destructive or destructive methods for the evaluation of process performance is done.</p> <p>(b) The Purchaser reserves the right to request and approve any NDT procedure.</p> <p>(c) Personnel performing or evaluating special or non-destructive testing/evaluation processes shall be trained and certified according to applicable standards.</p>	Supplier	Airbus internal
GQ17-2.1-19-05.01	<p>Additional Requirements on Special Processes</p> <p>For our Program Line SPACE, the following shall apply in addition:</p> <p>(a) If a product must be welded, the Supplier must refer to the applicable specification (ECSS-Q-</p>	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	<p>ST-70-39C Welding of metallic materials for flight hardware).</p> <p>(b) Weld repair of castings and forgings is not permitted.</p> <p>(c) A Supplier, who intends to subcontract surface treatment services to a lower-tier Supplier, shall provide for formal approval by the Purchaser:</p> <ol style="list-style-type: none"> (1) The qualification report (2) Associated ISO 9001 / EN 9100 certificates and scopes of approval (3) References for the processes and procedures / associated standards requested and/or agreed (4) Proof of capability/skill/background, e.g. Nadcap accreditation. 		
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2.1.20 Media-control / Stamp-control (linked to IAQG-9100 §8.5.2)			
QAA Req.No.	Requirements	Applicability	Origin
GQ17-2.1-20-01.01	<p>Acceptance Authority Media Control System</p> <p>(a) The Supplier shall establish and maintain a documented Acceptance Authority Media control system to ensure the correct and legitimate use of all manufacturing and inspection Authority Media.</p> <p>(b) The use of Acceptance Authority Media shall be restricted to authorized personnel as identified in the Acceptance Authority Media control system, e.g. stamp control system.</p> <p>(c) Acceptance Authority Media shall be traceable to individuals responsible for their use.</p> <p>(d) Acceptance Authority Media shall be applied directly to parts and materials, when specified by engineering drawings and specifications, and associated documents, records, labels.</p> <p>(e) Acceptance Authority Media materials and methods shall be compatible with the products and their use.</p>	Supplier	Airbus internal

2.1.21 Property belonging to Customers (linked to IAQG-9100 §8.5.3)			
QAA Req.No.	Requirements	Applicability	Origin
GQ17-2.1-21-01.02	<p>Identification and Usage</p> <p>The products supplied by the Purchaser including production and test equipment shall be properly identified as the Purchaser's propriety and exclusively used for fulfilling the Order/Contract for which they were supplied, unless a written authorization of the Purchaser is given.</p>	Supplier	Airbus internal
GQ17-2.1-21-02.02	<p>Inspection prior to use</p> <p>(a) The Supplier shall inspect all products including production and test equipment supplied by the Purchaser (for identification of material and for transportation damages as minimum) prior to its use, accomplishing at least a documentary inspection.</p> <p>(b) When the Supplier realizes that a Purchaser supplied product is unsuitable for its intended use, he shall immediately report to and coordinate with the Purchaser the remedial actions to be taken.</p>	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

<p>GQ17-2.1-21-03.02</p>	<p>Inventory Control on Property belonging to the Purchaser</p> <p>(a) The Supplier shall have at its disposal an inventory controlling system of all materials and/or equipment supplied by the Purchaser that assures its proper use.</p> <p>(b) The Supplier shall provide a list of all products and/or equipment supplied by the Purchaser on request.</p> <p>(c) On Purchasers stock managed by the Supplier, remaining quantity and shelf life shall be communicated regularly by the Supplier.</p> <p>(d) Products provided by the Purchaser shall be stored separately from those of the Supplier / Sub-Tiers.</p> <p>Note: "Stored" is not meant as stock or facility. Storage can be done for example in separate shelves/areas with clear identification/markings of the shelf/area.</p>	<p>Supplier</p>	<p>Airbus internal</p>
<p>GQ17-2.1-21-04.02</p>	<p>Production and Test Equipment belonging to the Purchaser</p> <p>(a) Purchaser furnished test/inspection devices and production equipments have to be sent back to the Purchaser by the Supplier without further request after contract fulfilment if not defined differently by the Purchaser.</p> <p>(b) The Supplier is responsible for the calibration status of Purchaser furnished production and test equipment as well as for the maintenance and care of this equipment.</p> <p>Note: "calibration status" is meant as calibration control. The Supplier needs to use a calibrated device and to monitor the expiration.</p>	<p>Supplier</p>	<p>Airbus internal</p>

<p>2.1.22 Preservation, Handling, Storage & Transportation (linked to IAQG-9100 §8.5.4)</p>			
<p>QAA Req.No.</p>	<p>Requirements</p>	<p>Applicability</p>	<p>Origin</p>
<p>GQ17-2.1-22-01.02</p>	<p>PHST (Packaging, Handling, Storage and Transportation)</p> <p>The Supplier shall define processes for the product PHST (Packaging, Handling, Storage, and Transportation). They shall define, document and control the necessary requirements, means/tools and conditions (e.g. temperature, humidity, ...) to ensure items protection and prevent damage/contamination all along the product life.</p> <p>They shall be applicable to all PBS items for delivery and all LBS items for maintenance and spare procurement.</p>	<p>Supplier</p>	<p>Airbus internal</p>
<p>GQ17-2.1-22-02.02</p>	<p>Segregated Storage Areas</p> <p>(a) The Supplier shall place the following items in segregated secure storage areas compatible with the cleanliness and climatic requirements:</p> <ul style="list-style-type: none"> (1) Incoming materials, (2) Intermediate items needing temporary storage, (3) End items before shipping. (4) Non-conforming items (5) Out of life limit items (6) Unsalvageable items (scrap) 	<p>Supplier</p>	<p>Airbus internal</p>

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	<p>(7) Items which require to be stored separately for health or safety reasons, (e.g. hazardous, flammable, ...) items</p> <p>(b) Any segregated area shall be identified and labeled for its intended use.</p>		
GQ-1-22-04.03	<p>Storage Control</p> <p>The Supplier shall maintain control over acceptance into and withdrawal from storage areas.</p>	Supplier	Airbus internal
GQ17-2.1-22-04.02	<p>Life limits records, traceability and maintenance</p> <p>(a) The Supplier shall maintain proper records and traceability and ensure that all stored items are within the usable life limits, controlled and retested if needed.</p> <p>(b) The Supplier shall be responsible for the maintenance of products during storage phases under his control to ensure their conformity.</p>	Supplier	Airbus internal
GQ17-2.1-22-06.02	<p>Delivery of items with Shelf lifed material</p> <p>(a) Shelf lifed material shall be identified on its packaging & associated CoC.</p> <p>(b) Items having limited-life or characteristics degrading with age or use shall be marked to indicate the dates, test times or cycles at which life was initiated and at which the useful life expires.</p> <p>(c) Unless otherwise specified in contractually applicable documentation (e.g. contract, purchase order) the service life of the delivered limited shelf life products shall not be less than 80 % of their service life with effect from the date of delivery.</p> <p>(d) Any deviations are subject to a formal and traceable request to and formal approval by the Purchaser prior to being worked and delivered.</p>	Supplier	Airbus internal
GQ17-2.1-22-07.01	<p>Special Transportation Requirements</p> <p>(a) Any specific storage condition, e.g. low temperature, shall also be applied and guaranteed during transportation.</p> <p>(b) Transportation of dangerous items (e.g. Pyrotechnic devices) shall comply with the rules defined in document "ST/SG/AC 10/1 Recommendation on the Transport of Dangerous Goods".</p>	Supplier	Airbus internal

2.1.23 Repair, reliability and availability (linked to IAQG-9100 §8.5.5)			
QAA Req.No.	Requirements	Applicability	Origin
GQ-1-23-03.05	<p>Technical data for maintenance, reliability, availability and capacity</p> <p>The Supplier shall conduct assurance activities and analysis on its product/service, taking into account all PBS items data, to ensure that the reliability, availability and capacity requirements and specifications are met.</p> <p>The Supplier shall provide for PBS items the technical data :</p> <p>(a) Mean Time Before Failure (MTBF) and Guaranteed MTBF (GMTBF)</p> <p>(b) Mean Time To Repair (MTTR) and Guaranteed MTTR (GMTTR)</p> <p>(c) Procurement lead time</p>	Supplier	Airbus internal
GQ-1-23-	Maintenance Plan	Supplier	Airbus

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

05.05	<p>The Supplier shall define and provide for its product/service a maintenance plan, that shall at minimum:</p> <p>(a) Contain the LBS (Logistics Breakdown Structure)</p> <p>(b) Describe the maintenance tasks, including:</p> <ul style="list-style-type: none"> (1) Corrective and Preventive, (2) the duration/effort, (3) the preventive maintenance frequency, (4) prerequisite CFIs, and means (5) calibration of LRU or means (6) required maintenance staff resources and skills (7) required trainings <p>(c) Describe the maintenance procedures with the associated means and tools and implementation conditions/constraints</p>		internal
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2.1.24 Release of products and services (linked to IAQG-9100 §8.6)			
QAA Req.No.	Requirements	Applicability	Origin
GQ17-2.1-24-01.01	<p>Foreign Object debris & Damage Management</p> <p>(a) The Supplier shall have a Foreign Object debris & Damage (burrs, tool marks, scale and other surface defects and contaminants) prevention program compliant with EN 9146 covering all stages of the Product life from design to delivery:</p> <ul style="list-style-type: none"> (1) to guarantee Foreign Object debris (FOD) and Foreign Object Damage (FOD) free Products are delivered to the Purchaser, other Suppliers of the Purchaser and the Purchaser's Customers, (2) to document, analyze and launch adequate corrective actions in case of FOD / FOD <p>(b) Notes:</p> <ul style="list-style-type: none"> (1) This includes prevention of emissions from the material itself and its surface treatments caused by low or high temperatures (outgassing, off-gassing). The Purchaser reserves the right to ask the manufacturer/Supplier for information or request the manufacturer/Supplier to conduct specific tests on this aspect. (2) This covers verification that consumables used during manufacturing/assembly/maintenance and/or integrated in the Product are only those authorized in technical specifications and/or manufacturing instructions. (3) No protective lubricants or substances shall be applied unless otherwise specified in applicable specification documents from the Purchaser. (4) All supplied items shall be the object of cleanliness control and an appropriate cleaning process before they are packaged for delivery. (5) All supplied items shall be handled and packaged in such a way as to prevent mechanical damage and contamination (e.g. from PVC or fibers) during storage and transportation. (6) All supplied items shall be compliant with the European REACH directive (EC) No. 1907/2006 Annex II. It is to be considered by the Supplier, that exceptions to legal regulations are possible for aerospace applications. (7) Any proposal by the Supplier to deviate from these requirement shall be subject to a formal request to and formal approval by the Purchaser, giving full justification and 	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	<p>demonstrating that the risk associated with the material is of an acceptable level.</p> <p>(c) If necessary, the Purchaser may provide technical support or expertise.</p>		
GQ17-2.1-24-02.02	<p>Additional Requirements for Program Line SPACE</p> <p>In addition, for any items delivered to the Program Line SPACE, the following shall apply:</p> <p>(a) For delivery, the cleanliness of items must be acceptable for entering a class 8 clean room according to ISO 14644 without any additional cleaning. The supplier shall adhere to "TN-ADST-1000206235 Subcontractor cleaning and packaging of flight parts/assemblies" for this topic.</p> <p>(b) Items containing the following materials in any form are prohibited, except when formally agreed on a case-by-case basis by the Purchaser:</p> <ul style="list-style-type: none"> (1) Pure zinc (2) Pure cadmium (3) Pure tin (electroplated or fused – defined as a material including at least 97% Sn) (4) Mercury (5) Radioactive materials (6) Polyvinylchloride (PVC). (7) Polyvinylacetate (PVAC) (8) Polyvinylbutyral (PVB) (9) Polysulphide (10) Alkyd (11) Cellulose (12) Celluloseacetate <p>(c) Material for primary packaging</p> <ul style="list-style-type: none"> (1) The only permitted material for primary packaging, i.e. directly in contact with the item(s), is SCC 1000. (2) If the Supplier chooses another type of packaging, it must be verified and tested. (3) Introduction of primary packaging other than SCC 1000 is subject to a formal and traceable request to and formal approval by the Purchaser prior to being worked and delivered. (4) Adhesive bottles and similar items may also not be in direct contact with cardboard packaging. 	Supplier	Airbus internal
GQ17-2.1-24-03.02	<p>Electro Discharge</p> <p>(a) All products shall be free from electro discharge. E.g.: Damage by electrostatic discharge, any residue from spark erosion, ...</p> <p>(b) If applicable the Supplier shall establish and maintain an ESD protection program in accordance with an applicable standard for use during the design, manufacture, test and storage/transport for product subject to ESD.</p>	Supplier	Airbus internal
GQ17-2.1-24-04.01	<p>Condition of Delivered Items</p> <p>(a) All items delivered shall be from new manufacture and unused.</p> <p>(b) Surplus, reworked, reclaimed, repaired or remanufactured items shall not be supplied to the Purchaser.</p>	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	(c) Any deviations are subject to a formal and traceable request to and formal approval (Concession) by the Purchaser prior to being worked and delivered.		
GQ17-2.1-24-05.01	<p>Configuration of Delivered Items</p> <p>(a) The configuration of the delivered products or services shall be formally controlled.</p> <p>(b) The Supplier organization shall review, approve and configure the delivery documentation (e.g. test reports, certificates...) attached to each deliverable.</p>	Supplier	Airbus internal
GQ17-2.1-24-06.02	<p>Shipping/Delivery note</p> <p>The shipping / delivery note shall comprise the following details:</p> <p>(a) Reference, Issue and Date</p> <p>(b) The Delivery Address</p> <p>(c) Purchase order number/ contract number</p> <p>(d) Airbus AIT Manager name for delivery</p> <p>(e) Airbus Supply Quality Manager name in case of disputed (e.g. damaged) reception</p> <p>(f) The information Flight item / non Flight item</p> <p>(g) Airbus Project</p> <p>(h) Supplier Name</p> <p>(i) Country of Manufacture</p> <p>(j) Export Control Classification Number(s) if applicable or statement "not subject to export control regulation"</p> <p>(k) License reference if applicable (e.g. Export License)</p> <p>(l) for DELIVERY CONTENT: Equipment & Loose Item</p> <p>(1) AIRBUS part Number (Product Tree CC)</p> <p>(2) Material / item Name</p> <p>(3) Serial number (if applicable)</p> <p>(4) Production order number (if applicable)</p> <p>(5) Supplier part Number</p> <p>(6) Net Weight per Unit (kg)</p> <p>(7) Quantity</p> <p>(8) Information for items listed, if they are mounted on equipment.</p> <p>The use of the Airbus Defence and Space "Shipment Bill Form" is encouraged. It is available through your contact in Airbus Defence and Space procurement.</p>	Supplier	Airbus internal
GQ17-2.1-24-07.01	<p>Material Safety Data Sheet</p> <p>(a) For chemical products, the Material Safety Data Sheet (MSDS) must be supplied at least for the first delivery.</p> <p>(b) Upon each update, a new MSDS is required for the first subsequent delivery.</p> <p>(c) Each update applied to the MSDS must be explicitly shown.</p> <p>(d) The MSDS shall be written in the language of the consignee country and be compliant with the European REACH directive (EC) No. 1907/2006 Annex II.</p>	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

<p>GQ17-2.1-24-08.01</p>	<p>Certificates</p> <p>(a) As per regulation EASA/FAA or equivalent national regulation (e.g. EASA Part 145/21, FAR 145/21, EMAR 145/21, DEMAR 145/21, PERAM 145/21) , the Supplier holding a Production Organization Approval recognized by the Purchaser (POA or equivalent) and covering the Product (included in its capability list) shall release its Product with an Authorized Release Certificate (ARC) (EASA Form 1 or equivalent)</p> <p>(b) By default, in all other cases, the Supplier shall release its Product with a Certificate of Conformity (CoC)</p>	<p>Supplier</p>	<p>Airbus internal</p>
<p>GQ17-2.1-24-09.01</p>	<p>Authorized Release Certificate</p> <p>(a) The Supplier shall release its Product with an Authorized Release Certificate (ARC) acceptable to the Purchaser (e.g. EASA Form 1, FAA 8130-3, TCCA Form One, or equivalent).</p> <p>Notes:</p> <p>(1) This implies having verified that the released Product is in conformity with approved Design Data and is in condition for safe operations. However, when conformity with approved Design Data cannot be attested (e.g. prototype pending certification, some modifications not yet approved), only conformity with non-approved Design Data can be attested in the ARC in line with applicable regulation.</p> <p>(b) When the Supplier Production Organization Approval (POA) or equivalent has not been granted yet, or when the Purchaser's Product is not yet included in the Supplier's POA capability list at start of deliveries, the Supplier shall:</p> <p>(1) request temporary authorization from the Purchaser to release the Product with a Certificate of Conformity (CoC) instead of an ARC,</p> <p>(2) inform the Purchaser when the situation has evolved and confirm that the Product will be released with an ARC from now on.</p>	<p>Supplier</p>	<p>Airbus internal</p>
<p>GQ17-2.1-24-10.02</p>	<p>Certificate of Conformity</p> <p>(a) The Supplier shall release all its Products with a Certificate of Conformity (CoC).</p> <p>Note: This implies having verified that released Product is in conformity with applicable Design Data and Requirements.</p> <p>(b) The Supplier shall ensure that the CoC:</p> <p>(1) is written in English (or is bilingual),</p> <p>(2) contains at least the following information:</p> <p>(i) CoC reference (including line number)</p> <p>(ii) Supplier name and address,</p> <p>(iii) Supplier code, Commercial and Government Entity (CAGE/NCAGE), if relevant,</p> <p>(iv) Purchase order reference,</p> <p>(v) Product designation and Part number (Airbus Part-Number, if applicable),</p> <p>(vi) Serial number or batch number if relevant (in the case of several batches, each batch must be identified separately. In case of differing manufacturer and packaging batches, both must be identified)</p> <p>(vii) Reference number to an original CoC (or equivalent) from OEM where applicable with copies supplied,</p> <p>(viii) Quantity and unit as relevant,</p>	<p>Supplier</p>	<p>Airbus internal</p>

	<p>(ix) Reference to any specifications, standards or drawings along with the applicable issue numbers,</p> <p>(x) If appropriate, the applicable shelf life and expiry date limitations and applicable storage conditions (e.g. non-metallic raw material and pyrotechnics)</p> <p>(xi) Description and status of work performed, where applicable,</p> <p>(xii) The source of self-procured material, raw materials, lower-tier machining, processing, any NDT, where applicable (for built-to-print items)</p> <p>(xiii) Any quality-related third-party approvals in support of the delivered product, including registration numbers where applicable.</p> <p>(xiv) Certificates from the Supplier's service providers, where applicable (for proprietary products and standard parts),</p> <p>(xv) Any remarks and/or reference affecting the Product, if any (e.g.: non-conformities / concessions with classification, FAI, ...).</p> <p>(xvi) Following statement of conformity (or equivalent wording): "We hereby declare that the delivered Product(s) comply with the applicable requirements, specifications, drawings, regulations, standards and have been successfully tested and/or verified",</p> <p>(xvii) The authorized signature and name (function also recommended) or individual, unambiguous and traceable signatory code by the Supplier's Quality-Manager or their authorised representatives,</p> <p>(xviii) Date.</p> <p>(c) Note: Adherence to IAQG SCMH (section 5.2.3 and 5.2.4), or to EN 10204 (certificate 2.1 for Non-structural materials and parts and certificate 3.1 for Structural parts and materials) is an acceptable answer.</p>		
<p>GQ17-2.1-24-11.02</p>	<p>CoC Additional Requirements</p> <p>(a) for parts manufactured from self-procured materials, the CoC shall</p> <ol style="list-style-type: none"> (1) specify the source of material and the NDT if applicable; (2) Include a copy of the material's certificate of conformity; (3) Provide confirmation of the raw material heat treatment. <p>(b) Where material has been procured in different heat treatment conditions to those of the final supply, full heat treatment history shall be provided, including ageing details.</p> <p>(c) for stockist/distributors :</p> <ol style="list-style-type: none"> (1) the CoC shall contain the direct reference to the original source of manufacture and provide unbroken traceability by virtue of a batch number or equivalent. (2) documents ensuring traceability of the batch/lot, the Supplier/manufacturer and the product reference shall be available and delivered with a copy of the CoC and test/control certificates. <p>(d) for Value-Added Distributor (VAD as per IAQG-definition, see §4 Glossary and Abbreviations)</p> <ol style="list-style-type: none"> (1) the CoC from the original component manufacturer (OCM) shall be sent certifying the PN without modifications. The OCM must be authorized by Airbus for the received part. (2) the CoC from the distributor shall indicate that the distributor is delivering as VAD for that part that comes from its original component manufacturer (OCM). (3) the CoC from the distributor shall come with an authorization letter in which the original component manufacturer (OCM) authorizes the distributor to be VAD for its product or product family. <p>(e) for items with a metallic surface finish delivered to the Program Line SPACE, the CoC shall contain a statement certifying, that no pure tin, either hot dipped or electroplated tin alloys</p>	<p>Supplier</p>	<p>Airbus internal</p>

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	with more than 97% tin, is contained within the material or on the surface.		
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2.1.25 Control of Non-conforming outputs, warnings/alerts Management (linked to IAQG-9100 §8.7)			
QAA Req.No.	Requirements	Applicability	Origin
GQ17-2.1-25-01.02	<p>Root Cause analysis and problem solving</p> <p>(a) The Supplier shall define and implement a process (in line with EN 9136 or equivalent) to manage significant and/or recurrent issues (such as product/service quality escape, non-conformity, anomaly/failure, process/documentation issue, incorrect/late design/production ...). The process shall cover the issues containment, root causes analysis, the resulting actions for correction and recurrence prevention (including on similar products and processes) and actions effectiveness measurement.</p> <p>(b) The Supplier shall promptly alert the Purchaser of the issue and agree with the Purchaser the issue management method and the resulting actions and timeframes</p> <p>(c) The Supplier shall regularly provide the purchaser detailed reports on the issue analysis and the resulting actions progress, verification and closure (e.g. using 8D/9S report method)</p> <p>(d) The Supplier shall periodically evaluate the corrective and preventive actions progress in order to ensure timely actions closure</p>	Supplier	Airbus internal
GQ17-2.1-25-02.02	<p>Collection and management of issue occurrences and non-conformities</p> <p>The Supplier shall:</p> <p>(a) Collect and record in centralized databases all occurrences and non-conformities (incl. NC identified from in-house production/operation, Suppliers site, customers site...), as well as their analysis, actions status, and the related quality records and affected products description</p> <p>(b) Trace, analyze and assess their impact on the product/service performance, quality and safety (e.g. using a Failure Reporting, Analysis and Corrective Action System - FRACAS)</p> <p>(c) Analyze and establish correlations between the non-conformities found at any stage (Industrialization, production/operation, tests, after delivery and MRO) and identify any possible adverse trends</p> <p>(d) Inform the purchaser and provide details and overview on the issues, their analysis status and the progress of the resulting actions (e.g. during dedicated Supplier quality reviews and nonconformance review boards)</p>	Supplier	Airbus internal
GQ17-2.1-25-09.02	<p>Issues management</p> <p>The Supplier shall, unless agreed otherwise:</p> <p>(a) Alert the purchaser of the issue within 2 working days from the day of its coming to his notice (this includes implementing an Early Warning System when relevant).</p> <p>(b) Ensure that containment actions are implemented within 3 working days (or less in most critical cases) from the date of the issue coming to his notice when the issue has/may impact on the quality/safety of the Purchaser or final customer product/operation</p> <p>(c) Provide the formal request for concession to the Purchaser for its written approval within 5 working days from the date of the issue coming to his notice</p> <p>(d) Provide a Corrective Action Report (CAR) for non-conforming products within 14 working days from the date of the issue coming to his notice.</p>	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	<p>(e) Perform and confirm effective implementation of the action plan within two months from the date of the issue coming to his notice</p> <p>(f) Notify the Purchaser within 5 working days of any non-conformance occurring on other programs when it becomes available to the Supplier's knowledge if those non-conformance may affect hardware or software delivered to the Purchaser.</p>		
GQ17-2.1-25-03.02	<p>Management of Non-Conforming Products</p> <p>The Supplier shall:</p> <p>(a) have a documented process</p> <p style="padding-left: 20px;">(1) for the management and approval of its manufacturing non-conforming Products, and</p> <p style="padding-left: 20px;">(2) for the avoidance, detection, mitigation and disposition of Counterfeit Parts.</p> <p>(b) identify and physically segregate the non-conforming Products in an access controlled area until they are scrapped, reworked or released after disposition of the non-conformity by the competent organization.</p> <p>(c) use one of the following disposition action for nonconforming items:</p> <p style="padding-left: 20px;">(1) Return to Sub-Tier: This disposition only applies to nonconforming procured items.</p> <p style="padding-left: 20px;">(2) Use "as-is": The item is found to be usable without eliminating the non-conformance.</p> <p style="padding-left: 20px;">(3) Repair: The item is recoverable such that it fulfils the intended usage requirements although it does not conform to the originally specified requirements.</p> <p style="padding-left: 20px;">(4) Scrap: The item is not recoverable by repair, for technical or economic reasons.</p> <p>(d) assure that non-conforming products and materials are not used for production, assembly and delivery without the Purchaser's written approval.</p>	Supplier	Airbus internal
GQ17-2.1-25-04.02	<p>Concessions</p> <p>The Supplier shall ensure that:</p> <p>(a) all concessions are approved prior to product/service delivery, with written formal authorization and according to Purchaser Requirements (if needed contact the Purchaser to ensure correct concession classification and description)</p> <p>(b) all delivered items shall be new manufacture and unused. No rework or repair shall be carried out without concession</p> <p>(c) non-conforming items covered by a concession are marked according to Purchaser requirements and guidelines. Whenever possible items shall be marked with the concession number in or close to the item identification plate and label.</p> <p>(d) the concession number is entered in the Certificate of Conformity</p> <p>(e) the approved concession is enclosed in the documentation with each delivery and package</p>	Supplier	Airbus internal
GQ17-2.1-25-05.02	<p>Assessment of Non-Conformity after Delivery to Airbus Site</p> <p>(a) In case a non-conforming Product (or Service) is identified at Airbus site, and when requested by the Purchaser, the Supplier shall assess the non-conformity with an NC-report and propose solutions (e.g. use-as-is, reject/return to sub-tier, scrap, or rework / repair Product), and/or raise a concession in line with Purchaser Requirements and planning.</p> <p>Note: In some cases and when agreed between Airbus and the Supplier, the concession may be issued and managed by Airbus on behalf of the Supplier.</p> <p>(b) When the Supplier has installed a non-conforming Product into its upper Assembly and/or has delivered a non-conforming Product to the Purchaser, the Supplier shall help identify the</p>	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	location of the non-conforming Product upon written request of the Purchaser.		
GQ17-2.1-25-06.01	<p>Management of Unsalvageable Items</p> <p>(a) The Supplier shall manage all Products declared as unsalvageable in line with EN 9147, to ensure they cannot:</p> <ul style="list-style-type: none"> (1) be used for Parts or Equipment manufacturing, (2) re-appear or be sold as airworthy / fit for service at a later date on the aerospace parts market. <p>(b) The Supplier shall ensure that Products declared as unsalvageable:</p> <ul style="list-style-type: none"> (1) are physically identified, (2) are handled and stored in secured/quarantine areas, (3) are mutilated (when feasible) prior transfer for destruction/recycling. <p>(c) The mutilation of unsalvageable Items and material shall be done in such a way that they are beyond salvage or repair, including their potential sub-assemblies.</p> <p>(d) When the mutilation of unsalvageable Items and material is not feasible prior to the transfer for destruction/ recycling (e.g. hazardous or small items), the transfer and destruction/recycling process shall be secured with capability to demonstrate the destruction or the recycling.</p>	Supplier	Airbus internal
GQ17-2.1-25-10.02	<p>Notification of Product/service Quality Escape identified post-delivery</p> <p>The Supplier shall:</p> <ul style="list-style-type: none"> (a) ensure Airbus is immediately informed in case products/services have been delivered and it has been subsequently identified that they are or are suspected to be defective (Product Quality Escape) and this potentially impacts technical, quality and/or industrial aspects, (b) notify any Product Quality Escape in accordance with the EN 9131, (c) support investigation with Airbus Design Organization to identify those Product Quality Escapes that could lead to an unsafe condition and provide assistance in dealing with any actions. 	Supplier	Airbus internal
GQ-1-25-14.03	<p>Alert System</p> <p>The Supplier shall participate in the alert system organized by the Purchaser or other Project stakeholder, by:</p> <ul style="list-style-type: none"> (a) Assessment of the impact of incoming alerts to Project work, and definition, implementation and follow-up of necessary corrective actions at any Project level. (b) Distribution of incoming alerts to the possible affected stakeholders within the project. <p>Note: Project stakeholders may be authorities, agencies, etc...</p>	Supplier	Airbus internal
GQ17-2.1-25-11.02	<p>Information about potential alerts</p> <p>The Supplier shall provide information to the Purchaser about potential alerts regarding problems (e.g. counterfeit parts) related to raw materials, sub-assemblies, processes or similar products/services as those delivered to the Purchaser.</p>	Supplier	Airbus internal

2.1.26 Monitoring, measurement and Data Control (linked to IAQG-9100 §9.1)		
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GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

QAA Req.No.	Requirements	Applicability	Origin
GQ-1-26-10.03	<p>Record System</p> <p>The Supplier shall maintain a system to record, acknowledge & control drawings, specifications, instructions & electronic media with their references & associated issues.</p>	Supplier	Airbus internal
GQ-1-26-04.05	<p>Process metrics</p> <p>The Supplier shall have appropriate metrics at relevant phases of the processes to manage the operational performance and control of the processes.</p>	Supplier	Airbus internal
GQ17-2.1-26-03.01	<p>Sampling Tests</p> <p>(a) When sampling plans are used the Supplier shall define and justify the following:</p> <ul style="list-style-type: none"> (1) sample size, sample selection methods and criteria for inspection severity, (2) acceptance / rejection criteria, and (3) screening of rejected lots. <p>(b) The Supplier shall maintain records of the sampling tests, together with the identification of the characteristics to which sampling is applied.</p>	Supplier	Airbus internal
GQ-1-26-06.03	<p>Manufacturing Readiness Review (MRR)</p> <p>When requested by the Purchaser a Manufacturing Readiness Review (MRR) shall be carried out by the Supplier prior to new product production, it will cover the following aspects as applicable to product:</p> <ul style="list-style-type: none"> (a) status of product definition and requirements, differences with the status of the qualification model, and impacts of these differences; (b) status of manufacturing, assembly, inspection and test documentation, differences with the status of the qualification model, and impacts of these differences; (c) validation status of manufacturing processes, with particular emphasis on critical processes; (d) implementation of dispositions for risk reduction, as defined by risk assessment, into the manufacturing, assembly, integration, inspection and test procedures; (e) availability of specified production, measuring and inspection equipment, and calibration status, when relevant; (f) cleanliness of facilities, with respect to the specified cleanliness levels; (g) facility temperature and humidity with respect to requirements. 	Supplier	Airbus internal
GQ-1-26-07.05	<p>Tooling process</p> <p>(a) The Supplier shall have a documented process to manage accountability, identification and Maintenance of measurement, manufacture, assembly and integration tooling.</p> <p>(b) The following aspects of tooling control shall be covered:</p> <ul style="list-style-type: none"> (1) all tooling shall be verified for dimensional accuracy prior to first use, following modification & at specified appropriate intervals during its life, this verification must be approved by qualified personal (2) a register of all tooling shall be maintained & used to manage/record the above actions (3) all tooling shall be properly protected and stored to prevent misuse, damage & 	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	deterioration. (4) unnecessary tooling shall not be kept in working areas		
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2.1.27 Audits, performance evaluation (linked to IAQG-9100 §9.2)			
QAA Req.No.	Requirements	Applicability	Origin
GQ17-2.1-27-01.02	<p>Audits and Assessments</p> <p>In accordance with any applicable security regulations</p> <p>(a) The Supplier shall plan and perform internal and Sub-Tier audits and assessments using established and maintained procedures and/or instructions.</p> <p>(b) The Supplier shall perform audits / assessments on its own performance to verify the implementation and effectiveness of the provisions defined in the PA/QA (or equivalent) plan.</p> <p>(c) Audit / assessment results shall be made available to the Purchaser upon request.</p>	Supplier	Airbus internal

2.2 Configuration Management Requirements

2.2.01 Control of documented Informations (linked to IAQG-9100 §7.5.3)			
QAA Req.No.	Requirements	Applicability	Origin
GQ-2-01-12.05	<p>Data and documentation management – General</p> <p>The Supplier shall comply with the applicable regulations and requirements related to documentation and data (scope, content, transfer, configuration management, archiving, retention and retrieval).</p> <p>Note : for example, the ISO 27001 ensure that classified information communicated to Supplier is handled properly</p>	Supplier	Airbus internal
GQ17-2.2-01-02.02	<p>Documentation management</p> <p>The Supplier shall ensure that:</p> <p>(a) The documentation configuration management system and procedures are in place in order to maintain documents under configuration control and ensure that document changes are controlled, agreed and tracked.</p> <p>(b) Any modification in such documents shall change the issue of the document and shall be described and tracked in the document.</p> <p>(c) The up-to-date version of appropriate documents and data are available at all locations where operations essential to the effective functioning of the quality system are performed;</p> <p>(d) Proper data and documentation exchange procedures and formats are set up throughout the Supplier Project organization;</p> <p>(e) Documents are identified and verified for adequacy, currentness and incorporation of product assurance requirements;</p> <p>(f) Changes to documents and data are reviewed and approved by the same functions or</p>	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	<p>organizations that performed the original review and approval unless specifically designated otherwise;</p> <p>(g) Changes to be implemented on Purchaser request are done before 5 working days from the receiving date at the facility if not otherwise agreed with the Purchaser.</p> <p>(h) A master list or equivalent document control procedure identifying the current revision of documents and data support is established and is readily available to preclude the use of invalid or obsolete documents and data.</p> <p>(i) Purchaser documentation is kept in appropriate safe conditions (confidential, limited access, accident prevention, etc.).</p> <p>(j) The Supplier shall be responsible for controlling & implementing documentation in force (e.g. approved documentation by the holder of the type certificate, and implement up-to-date working instructions to shop-floor) as well as its distribution to Sub-Tiers with any major changes communicated to the Purchaser.</p>		
GQ17-2.2-01-03.02	<p>Change requests</p> <p>When requested by the Purchaser the Supplier shall provide a list of all change requests related to the product/service to the Purchaser.</p>	Supplier	Airbus internal

2.2.02 Identification and Traceability (linked to IAQG-9100 §8.5.2)			
QAA Req.No.	Requirements	Applicability	Origin
GQ17-2.2-02-01.02	<p>Identification and Traceability</p> <p>(a) Production stage and inspection status shall be clearly identifiable and traceable on all production batches - including partial batches, semi-finished products, components and subassemblies - at any time.</p> <p>(b) The Supplier shall be capable to trace data, personnel and equipment related to procurement, manufacturing, inspection, test, assembly, integration and operations activities.</p> <p>(c) The Supplier shall guarantee the traceability of all their calibrated measuring tools and means by recording in which operations they are used.</p> <p>(d) All items used in a subsystem shall fulfil the traceability requirements.</p> <p>(e) This includes associated raw materials and all processes/procedures/reports, even if they are subcontracted or delegated to lower-tier Suppliers.</p> <p>(f) For any manufactured product, a sequential record of its production (manufacture, assembly, inspection/ verification) must be available.</p> <p>(g) Where material has been procured with different properties, (e.g. heat treatment conditions) to those of the final supply, full treatment history shall be provided, (e.g. heat treatment including ageing details.)</p> <p>(h) Operator & inspector's identification must be written on the shop traveler log and managed by an appropriate method to provide traceability of operations.</p> <p>(i) The Supplier shall establish and maintain records of temporary installations and removals.</p> <p>(j) The Supplier shall be capable of demonstrating the traceability of the original source, batch and certifications of manufacturer for all PBS items and in any purchasing case (distributor or manufacturer).</p>	Supplier	Airbus internal
GQ-2-02-	Identification Control	Supplier	Airbus

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

10.03	<p>The Supplier shall establish and maintain controls to ensure that:</p> <ul style="list-style-type: none"> (a) identification numbers are assigned in a systematic and consecutive manner, (b) identification numbers of scrapped or destroyed items are not used again, (c) identification numbers, once allocated, are not changed, unless the change is authorized by the Purchaser, (d) a bidirectional and unequivocal relationship/traceability between parts, materials or products, their location and associated documentation or records is established, maintained and documented throughout all phases of contract performance and operational life of deliverable items. 		internal
GQ-2-02-12.05	<p>Change system</p> <p>The Supplier shall implement a configuration system and process to manage any changes, including lower tier activities.</p>	Supplier	Airbus internal
GQ17-2.2-02-04.02	<p>Identification of Items</p> <ul style="list-style-type: none"> (a) In order to maintain traceability of a part or item, the Supplier shall: <ul style="list-style-type: none"> (1) immediately replace a lost or damaged identifications, (2) ensure identification are located on visible places and are perfectly legible. (b) Parts / items losing their traceability shall be treated as non-conforming items. 	Supplier	Airbus internal
GQ17-2.2-02-05.02	<p>Marking and Labeling of Items</p> <ul style="list-style-type: none"> (a) The Supplier shall ensure that appropriate marking and labeling for packaging, storage, transportation and shipping of items are performed in accordance with the applicable specifications. (b) Items and/or their transport containers shall be labeled in a manner to ensure explicit identification (e.g. materials from different batches) and prevent accidental switching or mixup of parts. (c) Each individual container and/or packaging shall carry unequivocally, durable and legible external marking including: <ul style="list-style-type: none"> (1) Airbus Defence and Space Purchase order number (2) manufacturer (3) item designation (4) part number and version (5) applicable specification or standard, (6) the quantity of items, (7) batch identification or traceability / series number, (8) product conformance report reference (9) date of packing (10) relevant concession numbers if applicable (11) special storage requirements if applicable (d) Items themselves including raw and consumable material shall be marked as specified on the drawing or in applicable specification / standard with regards to: <ul style="list-style-type: none"> (1) location and method 	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	<p>(2) part number and version</p> <p>(3) batch identification or traceability / series number,</p> <p>(4) whenever possible relevant concession numbers if applicable</p> <p>(5) any other identification required by the drawing or specification / standard</p> <p>(e) Items having limited-life or definite characteristics of quality degradation or drift with age or use shall be marked to indicate the dates, test times or cycles at which life was initiated and at which the useful life expires.</p> <p>(f) Dangerous items (e.g. dangerous chemicals, pyrotechnic devices)</p> <p>(1) Dangerous items shall be delivered with marking (e.g. color coding) for visual identification of the nature of the item according to document "ST/SG/AC 10/1: Recommendation on the Transport of Dangerous Goods". The marking on the elements shall not be removable by the action of solvents or the environmental conditions.</p> <p>(2) For dangerous items the label must be written in the language of the Airbus Defence and Space site to which the item is delivered.</p>		
GQ17-2.2-02-06.01	<p>Requirements for Batches and Lots</p> <p>(a) When possible the items delivered according to the procurement specification / document shall be from a single manufactured batch in term of the material and/or treatment.</p> <p>(b) All items from the same batch shall be packed in unit packaging.</p> <p>(c) Batches that were split shall not be grouped together again. (E.g. batches that were split for heat treatment).</p> <p>(d) If a lot is made up of several batches, full sequential traceability must be ensured of all records of production (manufacture, assembly, inspection).</p> <p>(e) In case a manufacturing batch is split into several packaging batches, both need to be identifiable and fully traceable.</p>	Supplier	Airbus internal
GQ17-2.2-02-07.01	<p>Configuration of Software</p> <p>In case of Software as an own configured item, Integrated software shall be identified on the containing hardware.</p> <p>E.g.: This is applicable in case of Software as an own LRI/LRU (Line Replace Item / Line Replaceable Unit) and not configured under the Hardware LRI/LRU. -> e.g. field loadable software.</p>	Supplier	Airbus internal

2.3 Supply Chain Management Requirements

2.3.01 Capacity management (linked to IAQG-9100 §8.5.1.3)			
QAA Req.No.	Requirements	Applicability	Origin
GQ-3-01-04.05	<p>Planning and capacity management process & tools</p> <p>(a) The Supplier shall define and implement a planning and capacity management system/tool(s) (IT solutions).</p> <p>(b) The Supplier shall verify procurement plans (purchase orders, call-ups, forecasts) sent by the</p>	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	<p>Purchaser for integrity and applicability prior to manual or automatic import into its production management system.</p> <p>(c) The Supplier shall demonstrate the integrity of the overall capacity analysis (using the Purchaser’s procurement plan) for its Sales and Operations Planning (S&OP) and Master Production Schedule (MPS). It shall in particular by describe how tool(s) interface together and how data quality and synchronizations are ensured.</p> <p>(d) The Supplier shall demonstrate effectiveness of maintenance and obsolescence/continuity management of its IT solutions along the Product Lifecycle.</p>		
GQ-3-01-05.03	<p>Capacity Management Process</p> <p>For Development/ Production / Maintenance,</p> <p>(a) The Supplier shall have a process to manage capacity including the following steps:</p> <ul style="list-style-type: none"> (1) at strategic level (long term): <ul style="list-style-type: none"> (i) Resource Requirements Planning (RRP), (2) at tactical level (medium term): <ul style="list-style-type: none"> (i) Rough Cut Capacity Planning (RCCP), (ii) Capacity Requirement Planning (CRP), <p>Note: Alternatives can be presented (e.g. aggregation of RCCP and CRP) provided that the Supplier demonstrates the relevance of its solution.</p> <p>(3) at operational level: <ul style="list-style-type: none"> (i) Input/Output Control (I/O). </p> <p>(b) The Supplier shall demonstrate the consistency of its capacity management with its production planning activities throughout its production management system, by performing a capacity assessment.</p> <p>Note: When requested, the Supplier has to demonstrate its industrial capacity using the tool provided by the Purchaser</p> <p>(c) For each step, the Supplier shall define: <ul style="list-style-type: none"> (1) the purpose of the plan, (2) the owner of the process, (3) the inputs/outputs data, (4) the planning horizon, (5) the time bucket, (6) the update frequency. </p> <p>(d) The Supplier shall describe how the data accuracy is: <ul style="list-style-type: none"> (1) ensured throughout the process, (2) monitored during the Product lifecycle (including the development phase). </p> <p>Note: The data can include routing sheets content, allocated hours, cycle time and Takt time convergence, Overall Equipment Effectiveness (OEE) as relevant.</p>	Supplier	Airbus internal
GQ-3-01-06.03	<p>Inventory Management</p> <p>The Supplier shall manage its inventory (including Work In Progress), in particular:</p> <p>(a) rules for determining safety stocks or lead time margin (criteria for Product selection and safety solutions),</p>	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	<p>(b) rules for physical inventory (e.g. cycle counting with ABC classification, annual),</p> <p>(c) method to control and guarantee inventory accuracy (e.g. incoming inspection, stocktaking),</p> <p>(d) implementation of First In First Out (FIFO) methodology,</p> <p>(e) selection and deployment of relevant logistic solutions,</p> <p>(f) bottleneck management,</p> <p>(g) KPIs to monitor inventory.</p>		
GQ-3-01-07.03	<p>Backorder Management</p> <p>The Supplier shall manage its Backorders, including monitoring of delays and shortages, to anticipate and mitigate the risk of delays or poor quality on Purchaser side.</p>	Supplier	Airbus internal

2.3.02 Transfer of Work (linked to IAQG-9100 §8.1)			
QAA Req.No.	Requirements	Applicability	Origin
GQ-3-02-01.04	<p>Transfer of Work process – general</p> <p>(a) For Supplier Driven Transfer of Work (e.g. from factory A to factory B, or to a division of different QMS), the Supplier shall register and monitor Transfer of Work projects in a ToW Database.</p> <p>(b) The Transfer of Work Team shall check and ensure that the manufactured part being transferred matches to the design definition/ specification and that the actual in-service performance of the manufactured part, out of production and pre-mod spare part capability is ensured.</p> <p>(c) For Supplier Driven Transfer, the Supplier shall not start any transfer of work related to an Airbus' supplier without the prior agreement from Airbus.</p> <p>(d) The Supplier shall participate to the Kick-off meeting, steering meetings and to subsequent reviews as requested by Airbus.</p> <p>(e) The Supplier shall check and ensure that no physical transfer will be permitted until all gaps, identified during LAI (or Last Verification), are closed.</p> <p>(f) The Supplier shall update regularly the risk assessment template and the associated risk and opportunity register and informs Airbus as required until the final completion of the transfer.</p>	Supplier	Airbus internal
GQ-3-02-02.04	<p>Transfer of Work - Transfer Notification Form</p> <p>(a) For Supplier Driven Transfer, the Supplier shall send to Airbus the ToW-notification form (or equivalent).</p> <p>(b) For Supplier Driven Transfer, the Supplier shall deliver for each transfer notification, a ToW-Dossier (inc. ToW-plan) which is agreed by Airbus and which demonstrates compliance to Airbus requirements.</p> <p>(c) For Supplier Driven Transfer, the Supplier shall inform the relevant Airbus Procurement representatives in due time upon the decision/approval by the Supplier's board to initiate a Transfer of Work using the relevant notification template.</p>	Supplier	Airbus internal
GQ-3-02-04.04	<p>Transfer of Work - Project Plan</p> <p>(a) For Supplier Driven Transfer, the Supplier shall nominate a ToW Leader who will act as the</p>	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	<p>single focal point for Airbus (before and during a Transfer of Work) and a Transfer of Work team which includes representatives from the relevant disciplines and functions concerned by the transfer.</p> <p>(b) The ToW-Leader shall have the right level of Project Management skills and experience to manage the transfer.</p> <p>(c) The Supplier shall participate to the knowledge transfer, and for Supplier Driven Transfer, the Transfer of Work Leader shall ensure an appropriate knowledge transfer due to ToW (i.e. organizing, creating, capturing and distributing knowledge and ensuring its availability for future users).</p> <p>(d) The ToW Leader shall consolidate the overall ToW reporting and tracking of progress to include the relevant programme(s) axis.</p> <p>(e) For Supplier Driven Transfer, the Supplier* shall provide the report listing the gaps identified during the FAI (or first Verification) against LAI (or Last verification) and the mitigation plan to close those gaps.</p> <p>(f) Last Article Inspection _LAI_ (or Last verification) shall be carried out following the ToW LAI strategy.</p> <p>(g) The Supplier shall ensure that the Supplier's subtier-OUT informs Airbus Supply Chain Quality representatives about any SP/NDT/ TM qualifications couples that shall be removed (as not applied anymore) due to the transfer.</p> <p>Note*: This requirement is also applicable to BFE-Suppliers (Buyer Furnished Equipment).</p>		
GQ-3-02-05.04	<p>Transfer of Work - APQP driven</p> <p>(a) For Airbus-Driven transfer, the Supplier shall provide all necessary information to Airbus related to the transfer risk assessment (APQP Decision Tree _APQP-DT_ or equivalent risk analysis)</p> <p>(b) For Supplier-Driven transfer, the Supplier* shall issue a Risk assessment template (APQP Decision Tree _APQP-DT_ or equivalent risk analysis) including a risk and opportunities register and provides it to Airbus for acceptance before launching the Transfer of Work.</p> <p>Note*: This requirement is also applicable to BFE-Suppliers (Buyer Furnished Equipment).</p>	Supplier	Airbus internal

2.3.03 Delay Management (linked to IAQG-9100 §8.4.1.1)			
QAA Req.No.	Requirements	Applicability	Origin
GQ-3-03-01.05	<p>Management of delays</p> <p>The Supplier shall:</p> <p>(a) collect internal and external delays in an integrated or linked database, establish correlation between the delays found during industrialization, production (including tests) and after delivery to the Purchaser,</p> <p>(b) manage significant/recurrent delays with complete Root Cause analysis and problem solving</p> <p>(c) inform the Purchaser in case of forecasted delays.</p>	Supplier	Airbus internal
GQ-3-03-02.04	<p>Supply chain indicators (delivery and capacity) and supply chain reviews</p> <p>The Supplier shall:</p> <p>(a) calculate its own delivery performance indicators based on the definitions provided by the Purchaser,</p>	Supplier	Airbus internal

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	<p>(b) provide the delivery metrics as defined in the Supply Chain Flow Chart,</p> <p>(c) provide results of its delivery performance indicators upon Purchaser request,</p> <p>(d) perform a gap analysis between its own delivery performance indicators and those calculated by the Purchaser and provide the Purchaser upon request with any evidence and justification of gaps,</p> <p>(e) calculate its own capacity performance indicators correlated with delivery performances and provide the result to the Purchaser upon request,</p> <p>(f) participate in regular supply chain review meetings organized by the Purchaser to assess the capacity and delivery performances and review associated actions.</p>		
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3 Referenced Documents

For your information, the following docs have been used as source-documents for building the GSCQR for Detailed Parts, Materials and Electronics. All relevant content is part of this directive.

Doc Reference	Title
ABD0000 Issue E	Aircraft Constituent Items
ANSI/ASQC B1, B2, B3	American National Standard "Guide for Quality Control Chart", "Control Chart Method of Analyzing Data", "Control Chart Method of Controlling Quality During Production"
AQAP 2110	NATO QUALITY ASSURANCE REQUIREMENTS FOR DESIGN, DEVELOPMENT AND PRODUCTION
AQAP 2310	NATO Quality Assurance Requirements for Aviation, Space and Defence Suppliers
ASTM E 2782	Standard Guide for Measurement Systems Analysis (MSA)
ECSS-Q-ST-60	Electrical, electronic and electromechanical (EEE) components
ECSS-Q-ST-70-39C	Welding of metallic materials for flight hardware
IAQG (EN/ AS/ JISQ) 9100	QMS – Requirements for Aviation, Space and Defence Organizations
IAQG ... 9102	QMS – First article inspection requirements
IAQG ... 9103	QMS - Variation management of key characteristics;
IAQG ... 9110	QMS – Requirements for Aviation Maintenance Organizations
IAQG ... 9120	QMS – Requirements for Aviation, Space and Defence Distributors
IAQG ... 9131	QMS - Nonconformance Data Definition and Documentation
IAQG ... 9136	Root cause analysis and problem solving (9S Methodology)
IAQG ... 9145	Requirements for Advanced Product Quality Planning and Production Part Approval Process
IAQG ... 9146	Foreign Object Damage (FOD) Prevention Program
IAQG ... 9147	Management of unsalvageable Items
ISO 3534-2	Statistics – Vocabulary and symbols
ISO 9001	Quality management systems – Requirements
ISO 10005	Quality management – Guidelines for quality plans

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

Doc Reference	Title
ISO 10012	Measurement management systems - Requirements for measurement processes and measuring equipment
ISO 11462-1, -2	Guidelines for implementation of statistical process control (SPC) Part 1 and 2
ISO 14644	Cleanrooms and associated controlled environments
ISO 17025	General requirements for the competence of testing and calibration laboratories
ISO 27001	Information technology –Security techniques – Information security management systems – Requirements
JIS Z 9020-1	Control charts - Part 1: General guidelines
JIS Z 9021	Shewhart control charts
JIS Z 9041-1, -2, -3, -4, -5	Statistical interpretation of data - Part 1, 2, 3, 4 and 5
PQAR-1	Quality Assurance Requirements for Tornado Suppliers
QAP-J-0-E-1001	Quality Assurance Requirements for Suppliers – Eurofighter
SAE AS 5553	Counterfeit Electrical, Electronic, and Electromechanical (EEE) Parts; Avoidance, Detection, Mitigation, and Disposition
SAE J 1739	Potential Failure Mode and Effects Analysis (FMEA)
ST/SG/AC 10/1	Recommendation on the Transport of Dangerous Goods
TN-ADST-1000206235	Subcontractor cleaning and packaging of flight parts/assemblies
TT.GOV.D070	Airbus Defence and Space Generic Supply Chain and Quality Requirements for Suppliers

4 Glossary

Term	Definition
	AIRBUS DEFENCE AND SPACE internal definitions:
AIT	Assembly, Integration & Test
ASR	Airbus Supplier Requirement
Batch	A batch defines a quantity of items manufactured by a unique industrial process including raw material (i.e. when certain items of the lot are worked/processed in different conditions, these different items constitute a different batch of the lot)
FAI	First Article Inspection: A planned, complete, independent, and documented inspection and verification process performed to ensure that prescribed serial production/operation processes produced a first item conforming to specifications/requirements
LAI	Last Article Inspection: See FAI, but carried out on the last produced item.
Lot	A lot defines a quantity of batches produced according to the procurement specification/documents. A lot is produced according to its own work order.
LRI	Line Replaceable Item
LRU	Line Replaceable Unit
Part	Used sometimes instead of Item in this document
Product	Used sometimes instead of Item in this document

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

	Relating to external norms and standards:
AQAP	NATO Standard
ARP	SAE Recommended Practice
AS	SAE Aerospace Standard
ECSS	European Cooperation for Space Standardization
EN	European Standard
IAQG	International Aerospace Quality Group
ISO	International Organization for Standardization
JISQ	Japanese Aerospace Quality Group
NQAA	National Quality Assurance Authority
NQAR	National Quality Assurance Representative
SAE	Society of Automotive Engineers
SJAC	Society of Japanese Aerospace Companies
	Relating to Authorities:
DOA	Design Organisation Approval according to EASA or equivalent Part 21 - J
EASA	European Union Aviation Safety Agency
EMAR / DEMAR / PERAM	European / German / Spanish Military Airworthiness Requirements
ESA	European Space Agency
FAA	Federal Aviation Administration
FAA PMA	FAA Parts Manufacturer Approval
GQA	Government Quality Assurance
GQAR	Government Quality Assurance Representative
MOA	Maintenance Organisation Approval according to EASA or equivalent Part 145
POA	Production Organisation Approval according to EASA or equivalent Part 21 - G
	Others:
APQP	Advanced Product Quality Planning
CFI	Customer Furnished Item
CRC	Component Repair Centre
E.g.	Example given
FFF	Form, Fit and Function
HSE	Health, Safety and Environment
I.e.	Id est = that is
IT	Information Technology
LBS	Logistics Breakdown Structure
Nadcap	National Aerospace and Defense Contractors Accreditation Program

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN
Issue: 2

OBS	Organization Breakdown Structure
OCR	Operational Configuration Reference - The OCR is the Reference Configuration of a product / system in its operational environment for a defined project / scope.
OEM	Original Equipment Manufacturer
PBS	Product Breakdown Structure
PN	Part Number
QA / PA	Quality Assurance / Product Assurance
QAP	Quality Assurance Plan
QMS	Quality Management System
VAD	Value-Added-Distributor (as per International-Aerospace-Quality-Group definition) : A manufacturer or distributor designated and monitored by the qualified original component manufacturer (OCM) to complete the final assembly of the constituent components of a qualified product and act as a distributor of the finished product assembled on behalf of the qualified original component manufacturer (OCM).

5 Contributors

Name	Function
Alfonso Diaz Maldonado	Source Domain Quality
And many others from	Airbus Defence and Space Procurement, Quality and other functions

6 Approvers

Name	Function
Samuel Lamarti	HO Airbus Defence and Space Quality Procurement, TOQIP

7 Record of Revisions

Issue	Date	Reasons for Revision
1	01.02.2021	First issue
2	13.06.2022	Integration of EEE; Rededicating of this document to Detailed Parts, Materials and Electronics; Possibility to reference templates or tool for notification on changes; Update of FAI requirement; Introduction of external standards for FMEA, Critical Items and Key Characteristics, SPC, Measurement System Analysis; Alignment with TT.GOV.D070 Issue 5 and CASA 1033 series; Maintenance of Material during storage; Additional RAMS requirement; Update of Shipping note requirement; Referencing of IAQG AIMM; Possibility to tailor better by splitting requirements where sensible

GSCQR for Detailed Parts, Materials and Electronics

TT.GOV.D170.EN Issue: 2

<p>2 contd.</p>	<p>13.06.2022 contd.</p>	<p>New Requirements: GQ17-2.1-04-02.02 / GQ17-2.1-04-03.02 / GQ17-2.1-04-04.02 / GQ17-2.1-04-05.02 / GQ17-2.1-05-02.02 / GQ17-2.1-04-06.02 / GQ17-2.1-08-04.02 / GQ17-2.1-08-05.02 / GQ-1-09-08.05 / GQ17-2.1-10-05.02 / GQ-1-11-16.05 / GQ-1-11-17.05 / GQ17-2.1-11-01.02 / GQ-1-11-18.05 / GQ17-2.1-11-07.02 / GQ-1-12-03.05 / GQ-1-12-04.05 / GQ17-2.1-16-17.02 / GQ-1-23-05.05 / GQ17-1.1-02-05.02 / GQ17-2.1-06-02.02</p> <p>Change of Requirement Reference: GQ-1-25-26.03 -> GQ17-2.1-25-11.02 / GQSM-2.1-10-04.01 -> GQ17-2.1-10-04.01 / GQSM-2.1-11-03.01 -> GQ17-2.1-11-03.01 / GQSM-2.1-19-05.01 -> GQ17-2.1-19-05.01 / GQSM-2.1-20.01 -> GQ17-2.1-20-01.01 / GQSM-2.1-24-01.01 -> GQ17-2.1-24-01.01 / GQSM-2.1-24-04.01 -> GQ17-2.1-24-04.01 / GQSM-2.1-24-05.01 -> GQ17-2.1-24-05.01 / GQSM-2.1-24-07.01 -> GQ17-2.1-24-07.01 / GQSM-2.1-24-08.01 -> GQ17-2.1-24-08.01 / GQSM-2.1-24-09.01 -> GQ17-2.1-24-09.01 / GQSM-2.1-25-06.01 -> GQ17-2.1-25-06.01 / GQSM-2.1-26-03.01 -> GQ17-2.1-26-03.01 / GQSM-2.2-02-06.01 -> GQ17-2.2-02-06.01 / GQSM-2.2-02-07.01 -> GQ17-2.2-02-07.01</p> <p>Requirement content changed: GQ-1-04-21.03 -> GQ-1-04-21.05 / GQSM-1.2-02.01 -> GQ17-1.1-02-02.02 / GQ-1-02-01.04 -> GQ17-2.1-02-01.02 / GQ-1-04-20.04 -> GQ17-2.1-04-08.02 / GQ-1-04-25.04 -> GQ17-2.1-04-07.02 / GQ-1-08-03.03 -> GQ-1-08-03.05 / GQ-1-09-06.03 -> GQ-1-09-06.05 / GQ-1-11-04.03 -> GQ17-2.1-11-02.02 / GQ-1-11-06.03 -> GQ-1-11-06.05 / GQ-1-11-14.03 -> GQ-1-11-14.05 / GQ-1-16-08.03 -> GQ-1-16-08.05 / GQ-1-16-33.03 -> GQ17-2.1-16-15.02 / GQ-1-16-34.03 -> GQ-1-16-34.05 / GQ-1-16-35.03 -> GQ17-2.1-16-14.02 / GQ-1-19-01.03 -> GQ17-2.1-19-01.02 / GQ-1-19-06.03 -> GQ-1-19-06.05 / GQ-1-21-02.03 -> GQ17-2.1-21-01.02 / GQ-1-21-03.03 -> GQ17-2.1-21-02.02 / GQ-1-21-08.04 -> GQ17-2.1-21-04.02 / GQ-1-22-01.04 -> GQ17-2.1-22-01.02 / GQ-1-23-03.03 -> GQ-1-23-03.05 / GQ-1-24-05.03 -> GQ17-2.1-24-06.02 / GQ-1-25-11.04 -> GQ17-2.1-25-10.02 / GQ-1-25-26.03 -> GQ17-2.1-25-11.02 / GQ-1-25-27.04 -> GQ17-2.1-25-01.02 / GQ-1-26-04.03 -> GQ-1-26-04.05 / GQ-1-26-07.03 -> GQ-1-26-07.05 / GQ-2-01-08.03 -> GQ17-2.2-01-03.02 / GQ-2-01-12.03 -> GQ-2-01-12.05 / GQ-2-02-12.04 -> GQ-2-02-12.05 / GQ-3-01-01.03 -> GQ-3-01-04.05 / GQ-3-03-01.03 -> GQ-3-03-01.05 / GQSM-1.1-01.01 -> GQ17-1.1-01-01.02 / GQSM-1.2-01.01 -> GQ17-1.1-02-01.02 / GQSM-1.2-03.01 -> GQ17-1.1-02-03.02 / GQSM-1.2-04.01 -> GQ17-1.1-02-04.02 / GQSM-2.1-04-01.01 -> GQ17-2.1-04-01.02 / GQSM-2.1-05.01 -> GQ17-2.1-05-01.02 / GQSM-2.1-06.01 -> GQ17-2.1-06-01.02 / GQSM-2.1-07.01 -> GQ17-2.1-07-01.02 / GQSM-2.1-08-03.01 -> GQ17-2.1-08-03.02 / GQSM-2.1-09-03.01 -> GQ17-2.1-09-03.02 / GQSM-2.1-10-01.01 -> GQ17-2.1-08-01.02 / GQSM-2.1-11-06.01 -> GQ17-2.1-11-06.02 / GQSM-2.1-13-01.01 -> GQ17-2.1-13-01.02 / GQSM-2.1-13-02.01 -> GQ17-2.1-13-02.02 / GQSM-2.1-13-03.01 -> GQ17-2.1-13-03.02 / GQSM-2.1-15-01.01 -> GQ17-2.1-15-01.02 / GQSM-2.1-16-03.01 -> GQ17-2.1-16-03.02 / GQSM-2.1-16-04.01 -> GQ17-2.1-16-04.02 / GQSM-2.1-16-08.01 -> GQ17-2.1-16-08.02 / GQSM-2.1-16-09.01 -> GQ17-2.1-16-09.02 / GQSM-2.1-16-10.01 -> GQ17-2.1-16-16.02 / GQSM-2.1-16-11.01 -> GQ17-2.1-16-11.02 / GQSM-2.1-16-13.01 -> GQ17-2.1-16-13.02 / GQSM-2.1-17.01 -> GQ17-2.1-17.02 / GQSM-2.1-18.01 -> GQ17-2.1-18-01.02 / GQSM-2.1-22-02.01 -> GQ17-2.1-22-02.02 / GQSM-2.1-22-04.01 -> GQ17-2.1-22-04.02 / GQSM-2.1-24-02.01 -> GQ17-2.1-24-02.02 / GQSM-2.1-24-03.01 -> GQ17-2.1-24-03.02 / GQSM-2.1-24-10.01 -> GQ17-2.1-24-10.02 / GQSM-2.1-24-11.01 -> GQ17-2.1-24-11.02 / GQSM-2.1-25-02.01 -> GQ17-2.1-25-02.02 / GQSM-2.1-25-03.01 -> GQ17-2.1-25-03.02 / GQSM-2.1-25-04.01 -> GQ17-2.1-25-04.02 / GQSM-2.1-25-05.01 -> GQ17-2.1-25-05.02 / GQSM-2.1-25-08.01 -> GQ17-2.1-25-09.02 / GQSM-2.1-27-01.01 -> GQ17-2.1-27-01.02 / GQSM-2.2-01-02.01 -> GQ17-2.2-01-02.02 / GQSM-2.2-02-01.01 -> GQ17-2.2-02-01.02 / GQSM-2.2-02-04.01 -> GQ17-2.2-02-04.02 / GQSM-2.2-02-05.01 -> GQ17-2.2-02-05.02 / GQ-1-11-15.03 -> GQ17-2.1-11-04.02 / GQ-1-16-09.03 -> GQ-1-16-09.05</p> <p>Requirements which were merged: GQ-1-08-01.03 + GQ-1-08-05.03 -> GQ17-2.1-08-02.02 / GQ-1-10-02.03 + GQSM-2.1-10-03.01 -> GQ17-2.1-10-03.02 / GQ-1-12-02.03 + GQ-1-14-05.03 + GQ-1-16-27.03 -> GQ17-2.1-12-01.02 / GQ-1-15-03.03 + GQSM-2.1-11-04.01 -> GQ17-2.1-15-02.02 / GQ-1-15-08.03 + GQ-1-15-09.03 -> GQ-1-15-08.05 / GQ-1-19-03.03 + GQ-1-19-04.03 -> GQ17-2.1-19-06.02 / GQ-1-21-06.04 + GQ-1-21-07.03 -> GQ17-2.1-21-03.02 / GQ-1-22-12.04 + GQSM-2.1-22-05.01 -> GQ17-2.1-22-06.02</p>
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