SQR - Supplier Quality Requirements

Chapter	Sub-Chapter	Paragraph	Information/ Requirement
1. Scope	1.6	1.6.1	This document specifies Quality Requirements for IAI Suppliers that provide processes, products and services under the following categories : **- Type 18 : Design and Development**
1. Scope	1.9	1.9.1	Suppliers supplying POs intended for **Civil Aviation** products shall comply with CAG-9000 Requirements (Latest Revision).
1. Scope	1.1	1.10.1	Suppliers supplying POs intended for the **Bedek Aviation Group** shall comply with the Bedek Aviation Group - Quality Assurance Requirements (Lastest Revision).
1. Scope	1.11 Quality requirements applicable to the PO	1.11.1	Supplemental quality requirements related to the specific product ordered, are included in the PO and it's Applicable Documents, in addition to the requirements specified in this SQR.
1. Scope	1.11 Quality requirements applicable to the PO	1.11.2	Requirements order of precedence: In cases of conflict between requirements in this SQR and requirements in other purchase order documents, the following is the order of precedence: - Purchase Order - Product file / Drawings - SOW, technical specifications - This SQR.
1. Scope	1.11 Quality requirements applicable to the PO	1.11.3	Per IAI request, the Supplier shall submit a compliance matrix to the PO requirements including this SQR, and obtain IAI approval.
2. Applicable Documents	2.1 International Standards	2.1.1	ISO 9001 (LR) Quality Management Systems - Requirements.
2. Applicable Documents	2.1 International Standards	2.1.2	AS9100 (LR) Quality Management Systems - Requirements for Aviation, Space and Defense Organizations.
2. Applicable Documents	2.1 International Standards	2.1.3	AS9115 (LR) Quality Management Systems - Requirements for Aviation, Space and Defense Organizations – Delivered Software (Supplement to 9100).
2. Applicable Documents	2.1 International Standards	2.1.5	AS9103 (LR) Variation Management of Key Characteristics.
2. Applicable Documents	2.1 International Standards	2.1.7	AS9146 (LR) Foreign Object Damage (FOD) Prevention program – Requirements for Aviation, Space, and Defense organizations.
2. Applicable Documents	2.1 International Standards	2.1.9	AS 5553 (LR) Counterfeit Electronic Parts Avoidance, Detection, Mitigation and Disposition.
2. Applicable Documents	2.1 International Standards	2.1.10	AS6174 (LR) Counterfeit Materiel; Assuring Acquisition of Authentic and Conforming Materiel
2. Applicable Documents	2.1 International Standards	2.1.11	ISO/ IEC 17025 (LR) General Requirements for the Competence of Testing and Calibration Laboratories.

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2. Applicable Documents	2.1 International Standards	2.1.12	ISO 10007(LR) Quality Management – Guidelines for configuration management
2. Applicable Documents	2.2 IAI Process Specifications	2.2.1	IAI PS474000E (LR) – IAI Requirements and Procedures for Avoiding Counterfeit EEE Parts
2. Applicable Documents	2.3 Military Standards	2.3.2	MIL-STD-130 (LR) - Identification Marking of U.S. Military Property
3. General Requirements	3.1 Quality Management System requirements	3.1.1	The Supplier shall maintain a valid ISO 9001 certification under the authority of a recognized accreditation process, that is recognized by the International Accreditation Forum (IAF) requirements.
3. General Requirements	3.1 Quality Management System requirements	3.1.2	The Supplier's Quality Management System shall comply with AS/EN/JISQ/IA 9100 or equivalent (LR) and the additional requirements defined in this document. 1E Distributors shall comply with AS/EN/JISQ/IA 9120 Requirements (LR).
3. General Requirements	3.2 Right of Access	3.2.1	IAI, its customers and regulatory authorities shall be entitled to have their representative granted access to all areas at the supplier's premises, where work is being carried out for IAI. The Right of Entry requirement shall flow down to all sub-tier suppliers, applicable to the PO. The representative shall be entitled to: - Verify the compliance of the item with the engineering specifications and requirements of the purchase documents. - Conduct on-site audits - Evaluate, validate, inspect and observe tests, as well as the applicable documentation of all products to be supplied by the supplier under IAI PO. - Assure compliance with IAI Quality Requirements. - Access OASIS Level 2 data related to supplier's 3rd party audits (applicable to AS91**XX** certified suppliers).
3. General Requirements	3.2 Right of Access	3.2.2	Upon request, the supplier shall present, to the IAI representatives, any manufacturing documents, work instructions, and quality records related to the IAI purchase order.
3. General Requirements	3.3 Supplier Performance	3.3.1	The Supplier's performance is evaluated by IAI and indicated in the IAI Suppliers Portal/ Nipendo. The Supplier shall monitor its rating and initiate corrective actions, to maintain its rating above 85%.
3. General Requirements	3.3 Supplier Performance	3.3.2	A Quality Improvement Plan (QIP) shall be submitted to IAI upon request.
3. General Requirements	3.3 Supplier Performance	3.3.3	Upon request, the Supplier shall provide IAI with a Quality Status Report on a periodic basis. This Quality Status Report shall contain all or part of the following, as specified by IAI: First Time Quality (FTQ) yield, internal & external failure trends and analysis, Root Cause Analysis and Corrective Actions (RCCA), escapes and complaints.

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3. General Requirements	3.4 Awareness, Training and Competence	3.4.1	The Employee Competency program shall include, but is not limited to, the following. Awareness of Product safety, counterfeit and suspected counterfeit parts, the importance of ethical behavior, contribution to product or service conformity, hazardous materials, awareness of regulations and customer requirements, as applicable to employee duties and work environment.
3. General Requirements	3.6 Ethical Behavior Policy	3.6.1	The Supplier shall have an internally published Ethical Behavior Policy. The policy is intended for all employees and shall cover the various areas of expected behavior. The policy shall be detailed to a level that enables proper training to the affected personnel.
3. General Requirements	3.7 Communication	3.7.1	The Supplier shall appoint a Quality Management POC for IAI.
3. General Requirements	3.7 Communication	3.7.2	The Supplier shall notify IAI within 24 hours, on any potentially Non-Conforming product supplied, attaching all the required details (P/N, S/N, delivery information, quantity, detailed description of the nonconformity and its implications.)
3. General Requirements	3.7 Communication	3.7.3	The Supplier shall notify IAI within 14 calendar days of any changes to: Ownership of the company, QMS certificate, Nadcap certificate, key management personnel, organizational structure, change in facility, location and/or any other significant changes that may affect the products or services delivered to IAI.
3. General Requirements	3.7 Communication	3.7.4	The Supplier shall review the applicable information listed in the IAI Suppliers Portal/ Nipendo during PO review.
3. General Requirements	3.7 Communication	3.7.5	The Supplier shall periodically (at least quarterly) monitor and review the IAI Suppliers Portal. The review shall cover certification validity, quality and delivery rating, Unsatisfactory Reports (UR) status, engineering data configuration (complete check marks in the acknowledgment column), Point of Contact (POC) for engineering documents distribution, etc.
3. General Requirements	3.7 Communication	3.7.7	The Supplier is responsible for notifying IAI if documents that are required to carry out the work defined in the active POs, are missing from the IAI Supplier Portal/ Nipendo.
3. General Requirements	3.8 Record Retention	3.8.1	The Supplier and the sub-tier suppliers shall maintain verifiable objective evidence required by this document and the applicable requirements. These records (Electronic or Physical) shall be made available to IAI, IAI customer and/or government representatives upon request within 3 calendar days. These records shall be retained in a safe, secured and accessible location for a period of 10 years, after date of delivery or as defined in the contract/SOW.
3. General Requirements	3.8 Record Retention	3.8.2	Records held for the required retention period shall not be destroyed without written IAI concurrence.

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4. Plan and Manage	4.1 Program/Project Quality Plan	4.1.1	Upon IAI request, The Supplier shall submit a Program Quality Plan (PQP) which addresses the contractual requirements and the requirements specified in this document. The PQP shall describe and document the planning of the product realization in terms of Quality Requirements for the product, needed resources, required control activities (verification, validation, monitoring, inspection and/or testing), and acceptance criteria. The PQP shall be submitted to IAI for approval. Changes shall be made to the PQP as may be needed, following changes in the PO, and require IAI re-approval.
4. Plan and Manage	4.2 Risk Management	4.2.1	The Supplier shall adopt a risk management policy using appropriate risk management tools to manage risks in the operations under its responsibility. The risk identification process shall address at least the following: Special requirements, new product design, new product introduction, new technologies, selection of suppliers, supply chain, major changes in production processes and work transfer. The Supplier shall provide a Risk Register, upon IAI request, and shall communicate high risks to IAI.
4. Plan and Manage	4.3 Configuration Management System	4.3.1	The supplier shall maintain a process and associated procedures to control and manage the configuration of the product, to ensure the identity and traceability including changes throughout the product lifespan (Ref ISO10007 for guidance).
4. Plan and Manage	4.4 Digital Product Definition (DPD)	4.4.1	The Suppliers receiving engineering definition data (e.g. 3D Models, Manufacturing Files) in digital format shall maintain a DPD Plan and associated procedures to assure the integrity of the product from receipt of data from IAI, through creation of derivatives, to product acceptance and process improvement. This plan and these procedures shall specifically address the processes and techniques unique to all DPD processes, including the delivery of authorized data to users in design, manufacturing, product acceptance and process controls. The DPD plan shall be submitted to IAI for review and approval upon request.
5. Design and Development	5.1 General Requirements	5.1.2	The Supplier shall maintain full traceability of IAI requirements to the evidence of compliance. The Supplier shall maintain a process to control changes in these requirements.
5. Design and Development	5.1 General Requirements	5.1.3	Records of the results of Design Reviews / Design Verification shall be retained by the Supplier as quality records.
5. Design and Development	5.1 General Requirements	5.1.4	The complete design data shall be submitted for IAI approval via Vendor Control Drawings (VCDs).
5. Design and Development	5.2 Critical Items	5.2.1	The Supplier's identified Critical Items List (CIL) shall be submitted for IAI approval.
5. Design and Development	5.3 Changes in Design	5.3.1	The supplier shall not make any changes in the design outputs including the design data package and process specifications following design freeze, unless approved by IAI prior to implementation.
6. Purchasing	6.1 Risk Management	6.1.1	The supplier shall identify and manage the applicable risks associated with the product, processes and services received from external providers.
6. Purchasing	6.2 Requirements flow-down	6.2.1	The supplier shall flow-down, to sub-tier suppliers, the applicable requirements that are invoked or applied via IAI's PO, including this clause. Flow-down shall include requirements for documentation and records assuring full traceability to materials and processes.

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6. Purchasing	6.3 Approval and Management of sub-tier suppliers	6.3.1	The supplier shall be responsible for the approval and quality of their lower-tier suppliers, by means of quality requirements flow-down and appropriate controls. The Supplier shall have a plan for managing its sub-tier suppliers. The plan should include audits, surveys, and additional controls, as deemed necessary by the Supplier based upon the applicable risks.
6. Purchasing	6.3 Approval and Management of sub-tier suppliers	6.3.4	Upon IAI request, the Supplier shall submit, to IAI, information regarding the approvals and performance of its sub-tier suppliers.
6. Purchasing	6.5 Counterfeit Prevention	6.5.1	To prevent the use of counterfeit parts, The Supplier and all members of it's supply chain, including Distributors, shall comply with the requirements of AS5553 and PS474000E for EEE parts and AS6174 for all other parts. Counterfeit, or suspected counterfeit parts shall be controlled to prevent re-entry into the supply chain.
7. Manufacturing	7.1 Control of the Manufacturing Process	7.1.1	The Supplier shall define: Acceptance criteria, test plans, safety requirements, critical items and key characteristics , in addition to those defined in the information flow-down by IAI.
7. Manufacturing	7.7 Customer Property	7.7.1	The Supplier shall establish procedures to register and manage a list of all items and tools provided by IAI, to assure proper and safe storage.
7. Manufacturing	7.7 Customer Property	7.7.2	Unless otherwise specified in the contract, the supplier is responsible for the calibration of test equipment provided by IAI.
7. Manufacturing	7.13 Control of inspection and measuring devices	7.13.1	The supplier shall use calibrated test and measurement devices. Calibration reports shall demonstrate traceability to an ISO 17025 certified calibration laboratory.
9. Support	9.1 General	9.1.1	As applicable to the PO, the Supplier shall provide all the necessary documented information required to operate, maintain and support the product, service or system.

Abbreviations, Terms and Definitions

BTP	-	Built To Print
BTS	-	Built To Spec
CI	-	Critical Item
CIL	-	Critical Items List
COTS	-	Commercial Off The Shelf
Counterfeit part	-	An unuthorized copy, imitation, substitute, or modified part, which is knowingly misrepresented as a specified genuine part of an original or authorized manufacturer
Critical Characteristic	-	Any feature of a critical item (e.g. dimension, material, process, maintenance) hat if nonconforming, missing or degraded may cause the failure or malfunction of the critical item
Critical Items	-	Those items (functions, parts, software, processes) having significant effect on the provision and use of the products and services, that require specific actions to ensure they are adequately managed
DPD	-	Digital Product Definition
EEE Parts	-	Electronics, Electrical and Electro-mechanical parts
FAI	-	First Article Inspection
IAI Suppliers Portal/ Nipendo	-	Portals providing supplier relationship information and processes
Key Characteristic	-	An attribute or feature whose variation has a significant effect on the product, that requires specific actions for the purpose of controlling variation
LR	-	Latest Revision
Major / Class 1 Nonconformity	-	A condition that can result in the failure or reduce the usability of the product or service and its intended purpose or a nonconformity that has an appreciable effect on safety, weight, balance, structural strength, reliability, operational characteristics, or other characteristics affecting article airworthiness or other regulatory requirements.
Minor / Class 2 Nonconformity	-	A nonconformity not categorized as Major / Class 1
Nonconformity	-	A condition of any article, material or service in which one or more characteristics do not conform to requirements specified in
PO	-	Purchase Order

POC	-	Point of Contact
PQP	-	Project/ Program Quality Plan
QIP	-	Quality Improvement Plan
QMS	-	Quality Management System
Regulatory Authority	-	A National Aviation Authority (NAA) - e.g. CAAI – Civil Aviation Authority of Israel; U.S.A. - Federal Aviation Administration (FAA); Europe - Joint Airworthiness Authority (JAA) and European Aviation Safety Agency (EASA); or Defense agencies - e.g. DoD
SP	-	Special Process
Special Process	-	A process where the resulting output cannot be verified by subsequent monitoring or measurement and as a consequence, deficiencies become apparent only after the product is in use or has been delivered
Special Requirements	-	Those requirements identified by the customer, or determined by the organization, which have high risks of not being met, thus requiring their inclusion in the operational risk management process.
UR	-	Unsatisfactory Report
VCD	-	Vendor Controlled Drawings