

## Supplier Quality Requirements POWER

This document is an Appendix and therefore additional requirements to GRP-0087 (Global note: GRM-0123 is part of GRP0087).

All exceptions to the hereunder requirements shall be communicated to SAFRAN. SAFRAN will determine if the exception should be noted on the Certification of Conformity.

### QR-1. DFARS

#### Appendix to 1. Scope

Suppliers shall review [Safran](#) purchase orders to ensure the adequacy of requirements before orders are placed with sub-tier supplier(s). If a Government contract is being fulfilled, then the appropriate Regulations shall be invoked on sub-tier purchase orders e.g. Federal Acquisition Regulations (FAR), Defense Federal Acquisition Regulations (DFAR) and Ministry of Defense (MOD), etc.

### QR-2. SOURCE INSPECTION

#### Appendix to 5.1.2d Customer focus

Source inspection at a supplier's site will be imposed by a letter issued from the Safran Quality Manager to the supplier; as well as being noted on the applicable purchase order. Only the Safran Quality department can remove or waive source inspection.

Source inspection may be imposed, but not limited to:

- a) Product Audit / inspection
- b) Process Audit / inspection
- c) Corrective action review / follow up

### QR-3. ESD PACKAGING INSTRUCTIONS

#### Appendix to 8.5.4c Preservation

When the purchase order and / or applicable documents do not specify a method of packaging and preservation, it is the supplier's responsibility to assure that product is preserved and packed using methods that will assure that it arrives damage free to Safran.

All electrical connectors must be covered with a tight fitting cap. Connectors for ESD equipment shall be covered with a black ESD rated cap.

ESD precautions shall be employed for packaging and labelling of boards and other applicable devices. Items shall be clearly marked as "ESD Sensitive or in accordance with MIL-STD- 1686 and Mil-PRF-81705.

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## QR-4. SOLDER, SOLDERABILITY AND SOLDERABILITY TESTING

### Appendix to 8.5.3.1 Production process verification

Solderability testing of components shall be in accordance with joint industry standard IPC/EIA J-STD-002.

For suppliers providing electronic components to Safran, the solderability of parts must meet the requirements of J-STD-001 for solder, electrical and electronic assemblies, J-STD-002 for soldered tests for components leads, terminations, lugs, terminals and wires, J-STD-003 for test for printed boards, MIL-STD-750 Method 2026 for semiconductors and MIL-STD-853 for microelectronics, MIL-PRF-31032 for rigid, flexible and rigid-flex printed wiring boards, MIL-STD-202 Method 208 for all other parts. All affected components must be date coded twelve (12) months or newer from date of manufacture, and/or have a solderability test date which does not exceed twelve months from date of receipt at Safran Electrical & Power

Suppliers can obtain information on Safran special processes and other requirements from GRM-0123 Special Processes Qualification and Monitoring; GRP0087 - Requirements Applicable to Suppliers; Copies of these documents may be obtained from Safran Electrical & Power.

## QR-5. SPECIFIC TOOLING OR DATA TRANSFERRED

### Appendix to 8.5.1.1 Control of Equipment, Tools and Software programs

For every new tooling bought directly by Safran, Safran prime or sub-tier suppliers, or procuring suppliers must provide relevant design data set to SAFRAN included but not limited to 3D model, Drawings are required.

Tooling owned by SAFRAN must be tagged as the property of the Buyer (SAFRAN).

SAFRAN reserves the right to approve/ reject any new tool. If any tooling is reworked or modified or is a first time production run, the procuring supplier is responsible for First Article Inspection of the product.

Records for all Safran owned tooling shall be kept on file. These records shall indicate quantities produced along with preventive maintenance details for the tools.

## QR-6. QUALIFIED PRODUCT LIST

### Appendix to 8.5.2 Identification and traceability

When Safran Engineering documents specify Qualified Product List (QPL) for parts, ensure only Manufacturers listed are utilized for procurement. True Manufacturer must be listed on provided Certificate of Compliance.

#### **PST/TWB only:**

*The following documents provide authorization to use the alternative materials therein without a prior approved permit:*

*ACD – Approved Component Database*

*981-210-005 Authorised Replacement Material (Metallic)*

*981-210-007 Authorised Replacement Material (Non-Metallic)*

*15-000100 Authorised Replacement Specifications*

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## QR-7. CONFIGURATION CONTROL

### Appendix to 8.5.6 Control of changes

Supplier shall not to make any change in materials or design details which would affect the Product or any component part thereof with regard to (a) part number identification, (b) physical or functional interchangeability, or (c) repair and overhaul procedures and processes and material changes which affect these procedures without prior written approval by Safran Electrical & Power. If such approval is granted, all part numbers and the originals of all drawings and data shall be revised accordingly. Seller will place the above clause in all its subcontracts for supplier identified purchased equipment whether such equipment is supplied to Seller as an end item or as a component part of an end item.

## QR-8. SUPPLIER EVENTS REQUIRING SAFRAN TO BE NOTIFIED (8.1)

### Appendix to 8.1 Operational planning and control

Supplier shall notify Safran Electrical & Power purchasing team 30 days in advance of the following:

- Changes to manufacturing process/materials (also from subcontractors) defined in the purchase order or contractual agreement
- Loss of critical capability or facility closure.
- Transfer of manufacturing location (following GRM-0065 with last article inspection required before any transfer)
- Transfer of the manufacturing equipment within the location
- Change in sub-tier suppliers
- Change in organization having a potential impact on customer / supplier relationship (key position)
- Change of ERP ( Enterprise Resource Planning) system
- Loss of approval(s) / accreditation.

A transfer plan for the proposed changes will be required along with a risk analysis prior to Safran approval. In addition, a Last Article Inspection shall be performed using the current means. This Last Article Inspection will be used as inputs into the transfer plan. **Safran must approve the changes before production commences.**

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## APPLICABLE DOCUMENTS

Except in case of specific directives from Safran Electrical & Power (SEP) or equivalence proposed and accepted by Safran Electrical & Power, the documents listed below are applicable to the supplier depending on the site which is the originator of the purchase order (PO).

SEP QMS Doc Ref	Internal Doc Ref	Title	Site originator of PO
GRP-0087		Requirements Applicable to Suppliers	ALL
GRM-0123		Provider Handbook	ALL
GRP-0132		Overall supply source performance measurement	ALL
GRM-0065		<u>Guide to work transfer</u>	ALL
PUR0406IN801	AHS000085	Validation of products: materials and consumables	REAU (FR)
REA-PUR06-P262	AHS000018	Quality sampling at source of procured items	REAU (FR)
REA-PUR06-P261	AHS000174	Processing of requests for improvement action	REAU (FR)
REA-MFG10-F271	E00133	Production Permit Form	REAU (FR)
PUR05IN800	AHS000204	Packaging and packing rules for suppliers	REAU (FR)
SC08IN800	AHS000492	Direct Shipment from a supply source to a customer's premises	REAU (FR)
IMP03IN800	QSE000016	Processing of non-conforming products by the suppliers	REAU (FR)
DES0003IN809	DEV000080	General technical specification applicable to equipment suppliers	REAU (FR)
MFG07IN842	PRO000875	Rules for protecting products sensitive to electrostatic discharges	REAU (FR)
PUR0601IN800F001		Synthesis sheet – Quality sampling report	REAU (FR)
PUR06F802		Request for corrective action from supply sources	REAU (FR)
SC08IN800F001	E00425	Authorization form for direct shipment	REAU (FR)
	QER010	Quality requirements applicable to specific hybrid integrated purchased from outside sources	REAU (FR)
	QER011	Quality requirements applicable to custom monolithic microcircuits suppliers	REAU (FR)
	QER012	Quality requirements applicable to externally supplied resistor networks	REAU (FR)
	QER017	Quality requirements specification applicable to outsourced transformers and inductors	REAU (FR)
	QER032	Quality requirements specification applicable to outsourced specific printed circuits	REAU (FR)
	QEG016	Inspection and acceptance of electrical harnesses	REAU (FR)
	E00052 (AS13000)	Non- quality procurement incidents (ENQA form compliant to AS13000)	REAU (FR)
PST-SC08-F304	11-185	First Article Requirements (was PS-10-04)	PST / TWB
	PST-PUR03-F298	Concession request (was 11-177)	PST / TWB
	PST-IMP03-P178	Notice of Escape (was 11-178)	PST / TWB
	981-210-005	Authorised replacement materials (Metallic)	PST / TWB

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	981-210-007	Authorised replacement materials (Non-Metallic)	PST / TWB
	15-000100	Authorised Supercession List for Obsolete Process Standards and Specifications	PST / TWB
	PST-PUR06-F329	Tooling Register (was 11-244)	PST / TWB

## LIST OF ACRONYMS

CoC – Certificate of Conformance

DFAR – Defense Acquisition Regulation System

DVI – Dossier Validation Industrialization (Industrial Validation Documentation)

ESD – Electro-Static Discharge

FAI – First Article Inspection

GRF – Safran Group Form

GRM – Safran Group Manual

GRP – Safran Group Procedure

MIL-PRF – Military Performance Specification

MIL-Spec – Military Specification

MIL-STD – Military Standard

MRB – Material Review Board

N/A – Not Applicable

OSHA - Occupational Safety and Health Administration

PO – Purchase Order

PVC – polyvinyl chloride (widely produced synthetic plastic polymer)

QMS – Quality management System

QN – Quality Notice

QR – Quality Requirements

QPL – Qualified Products List

SDS – Safety Data Sheet

SEP – Safran Electrical & Power

SQE – Supplier Quality Engineer

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