

SUPPLIER QUALITY REQUIREMENTS (SQRs)

Standard Requirements:

Unless otherwise specified on the Purchase Order, the following standard SQRs shall apply to all Purchase Orders issued by Parker Meggitt: **1, 2, 3, 4, 7, 8, 9, 10, 13, 14, 15, 17, 18, 19, 29 and 30**

Additional requirements for the Nuclear Safety-Related component:

Unless otherwise specified on the Purchase Order, the following SQR shall apply to all Nuclear Safety Related Purchase Orders issued by Parker Meggitt: **38**.

Any additional SQRs or requirements that apply will be listed by number on the Purchase Order. When the supplier uses sub-tier suppliers, the supplier shall flow the identified requirements down to those sub-tier suppliers.

SQR Description	SQR	Requirement	Standard Quality Requirement
Certificate of Conformance	1	<p>The Seller shall submit with each shipment of material a signed and dated material statement that identifies</p> <p>A.) The MAS part number and revisions for MAS drawings and/or</p> <p>B.) The catalog part number for COTS items on the Seller's stationary that certifies as a minimum the following:</p> <p>All material and/or services supplied are in conformance with the referenced technical data, purchase order, test reports, inspection results and any additional requirements as noted on the PO and/or drawing. All quality documentation is to be maintained at the point of manufacture for a minimum of 10 years and shall be available for review by the Buyer and/or Government Representative. MAS will be notified prior to disposal of the above stored documents.</p> <p>The Seller shall use Parker Meggitt certificate of conformance template QAD-431 to document the information is listed above. Supplier may use their own C of C template if all the requirements from QAD-431 are met.</p> <p>When a C of A contains all the requirements of C of C, the C of A could be accepted.</p> <p>The seller shall use page numbers, certifications number, page titles or other suitable means to ensure information presented on certifications or other records is unambiguously traceable on and between pages.</p>	X
First Article Inspection	2	<p>The Seller shall furnish a full First Article Report (FAIR) in accordance with AS9102 using an AS9102 form with the first shipment of each item and under any of the following conditions:</p> <ol style="list-style-type: none"> 1. It is the first time the seller has made / supplied the item (new supplier or old supplier with new part number) 2. There has been a production gap of greater than two years or more since the last FAIR was submitted. 3. A seller makes a change in the seller's or major sub-tier support infrastructure i.e. relocation, work transfer, etc. <p>A Delta FAIR in accordance with AS9102 using an AS9102 form, with the first shipment of each item and under any of the following conditions:</p> <ol style="list-style-type: none"> 1. A Drawing Revision (for the change only). 2. A seller makes a process change from the original FAIR <p>Note: A balloon drawing must be provided with all full & delta FAIRS. Actual impacted dimensions must be provided and impacted note attributes must be verified. A delta FAIR can only be performed if there is a previously existing full FAIR. COTs items do not require a FAIR.</p>	X

Raw Material Certification	3	Each shipment shall be accompanied by a legible material certification. The certification shall state the material specification and revision letter of the material (if applicable). For COTs (Commercial Off the shelf / catalogue) items, raw material certification does not apply. The seller shall maintain and provide the original mill certification and any secondary independent test laboratory certification(s) if any additional process was done after original mill certification for procured material that shall include physical properties, chemical analysis and lot number(s).	X
Special Process Certification	4	A legible copy of a certification for special processes shall accompany each shipment. Special processes include, but are not limited to, welding, heat treating, radiographic inspection, magnetic particle inspection, penetrant inspection, ultrasonic inspection, brazing, soldering, and plating. The certification shall list the applicable specifications, including revision letter/number to which the process conforms, the type or class, the date, the applicable purchase order number, part number, and quantity.	X
Chemical Test Report	5	Materials furnished in fulfillment of this Purchase Order must be accompanied by a legible copy of certified test reports of the chemical properties of the material. The report shall specifically identify the material by reference to the number of the melt, cast, heat, drop, lot, or other similar designation, and must indicate the applicable specification, revision, and Purchase Order designation. The seller shall maintain and provide the original mill certification and any secondary independent test laboratory certification(s) if any additional process was done after original mill certification for procured material that shall include physical properties, chemical analysis and lot number(s)	
Physical Test Report	6	Materials furnished in fulfillment of this Purchase Order must be accompanied by a legible copy of certified test reports of the physical properties of the material. The report shall specifically identify the material by reference to the number of the melt, cast, heat, drop, lot, or other similar designation, and must indicate the applicable specification, revision, and Purchase Order designation. The seller shall maintain and provide the original mill certification and any secondary independent test laboratory certification(s) if any additional process was done after original mill certification for procured material that shall include physical properties, chemical analysis and lot number(s)	
Traceability and Identification	7	All items on this order are subject to traceability at the Seller's facility; which is defined as the ability to trace the history, application, use and location of an individual item or characteristic lot of items through the system assignment, recording and correlation of control identification numbers. The Supplier shall assign lot identification for each batch or manufactured lot. A lot is defined as a quantity that has been blended, mixed, or fabricated during an uninterrupted manufacturing run. Each item in each lot shall be properly identified with the assigned lot number. Unless otherwise specified, the Purchase Order number is the lot traceability number. When material lot quantity is subdivided into containers, the supplier shall indicate this also on the Packing Slip, applicable for but not limited to spools, reels, rolls and fluid containers (drums, jugs, tubes).	X
Non-Conforming Material	8	Seller's items which are not conforming to MAS specified requirements including reliability are not to be submitted to MAS without prior written approval. Supplier Request for Waiver/Deviation, Form QAD-291 must be dispositioned by MAS Material Review Board (MRB) personnel prior to shipment. This completed form must then be shipped with the non-conforming material. This form can be issued by Quality Assurance through cognizant MAS Buyer. MRB authority is not delegated to the Seller. Seller's shall immediately notify MAS of any discovery of items which are found to be nonconforming to MAS specified requirements including reliability that have been previously delivered to MAS without prior written approval. It is the responsibility of the supplier to determine and document the root cause of non-conforming material and the actions taken.	X

<p>Counterfeit / Fraudulent Material</p>	<p>9</p>	<p>Seller shall comply with SAE AS5553 REV. B and AS6174 standards for counterfeit parts avoidance, detection and mitigation. Seller agrees and shall ensure that Fraudulent/Counterfeit Parts, or any returned goods/parts/materials/electronic components, are not contained in the delivered products.</p> <p>In the event Seller suspects that it has furnished Fraudulent/Counterfeit Parts or any returned parts/goods/materials/electronic components, it shall immediately notify MAS in writing and identify the suspect parts. Further, Seller shall provide information when suspect parts/goods/materials/electronic components will be replaced with genuine parts/goods/materials/electronic components. When requested by MAS, Seller shall provide (if available) Authorized Supplier documentation that authenticates full traceability of the parts/goods/materials/electronic components.</p> <p>In the event that a Seller wants to procure material from an unauthorized distributor, it must first disclose the request in writing to MAS and receive approval from MAS engineering and quality.</p> <p>In accordance with Counterfeit Parts Avoidance per DFAR 252.246-7007 Contractor Counterfeit Electronic Part Detection and Avoidance System, and DFAR 252.246-7008 Sources of Electronic Parts, the seller shall maintain a system or method of item traceability that ensures tracking of the supply chain back to the Original Component Manufacturer/Original Equipment Manufacturer (OCM/OEM) of all Electrical, Electronic, and Electromechanical (EEE) assemblies and subassemblies either contained in a product or being delivered as a product under this order.</p> <p>Upon MAS request, seller shall provide documentation acceptable to MAS authenticating that an item is traceable to the OCM/OEM.</p> <p>The seller shall maintain and provide the original mill certification and any secondary independent test laboratory certification(s) if any additional process was done after original mill certification for procured material that shall include physical properties, chemical analysis and lot number(s)</p> <p>A Seller shall immediately notify MAS in writing at any time before or after Purchase Order placement if:</p> <ol style="list-style-type: none"> (1) Seller cannot purchase or acquire authentic components, subcomponents, parts, material, and supplies directly from the OCM/OEM or through an OCM/OEM authorized distributor chain (2) Seller or any of its subcontractors at any tier cannot maintain tracking of the supply chain back to the OCM/OEM for EEE. <p>The seller represents and warrants that only new and authentic components, subcomponents, parts, material, and supplies are procured, used, incorporated into, and/or delivered in performance of this order. No other material, part, or component other than a new and authentic part is to be used unless approved in advance in writing by MAS engineering and quality. Seller agrees and shall ensure that counterfeit parts or counterfeit work are not delivered to or incorporated into MAS or to MAS designee and that the work contains no counterfeit parts or counterfeit work. The intentional or unintentional use, incorporation, or delivery of counterfeit parts or counterfeit work is strictly prohibited. This includes it being provided either as an end item deliverable or as a component or subcomponent of an end item deliverable under this subcontract/ purchase order/letter contract.</p> <p>Seller shall include this clause or reasonably equivalent provisions in all subcontracts for the delivery of items that will be furnished to or included in products furnished to MAS.</p>	<p>X</p>
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		If the seller fails to comply with the requirements of this clause, such failure shall constitute a material breach and MAS shall have the right to all available remedies in law and in equality.	
Foreign Object Debris / Shop keeping	10	The material supplied on this purchase order shall be manufactured in an environment that is free of foreign objects. Material supplied shall be free of foreign objects and foreign object damage. The Supplier shall utilize effective FOD prevention practices in accordance with NAS-412 (NAS standard for FOD) as applicable to the product being supplied. The program shall be proportional to the sensitivity of the design of the design of the product(s) to FOD, as well as, to the FOD generating potential of the manufacturing methods. Whenever and/or wherever FOD entrapment or foreign objects can migrate seller's FOD prevention efforts shall, as appropriate, consider the following elements Design & Manufacturing Process Review, Performance Measurement, Training, Material Handling and Parts Protection, Housekeeping, Tool Accountability, Hardware Accountability, Lost Items, Physical Entry Control into FOD Critical Areas, and FOD Focal Point(s). The Seller shall maintain an ESOH (Environmental, Safety and Occupational Health) management program.	X
ESD Handling and Packaging	11	Electrostatic Discharge (ESD) protective handling procedures shall be established, documented, and implemented. Handling procedures are required for all areas where ESD items are manually or machine processed. ESD handling and protective packaging should be in accordance with current industry standards.	
Functional Test / ATP Data	12	A legible copy of actual test results, identifiable with test parameters and items submitted shall accompany each shipment. Each shipment against this order must be accompanied by a copy of Seller's acceptance test(s) data to provide evidence of compliance with all acceptance test requirements.	
Record Retention	13	Quality documentation shall be retained for a period of ten years or per Purchase Order.	X
Change Control / Notification	14	The Seller shall notify the Buyer and seek approval for any changes in design, configuration, material. Manufacturing process, manufacturing location, Special Process supplier and sub-tier supplier, testing method, or testing sequence. B) Seller's drawings, specifications, process documentation, manufacturing location, and test procedure, which have previously been approved by the Buyer, shall be resubmitted to the Buyer for evaluation and approval prior to the Seller effecting changes to the product or data. Changed articles shall be identified so as to segregate them from the unchanged articles.	X
Shelf Life Materials	15	The Supplier shall identify each item, package, or container of shelf-life material with the cure date, expiration date, lot/batch number, in addition to the normal identification requirements. This information, including any special handling conditions, shall be recorded on the certifications and shipping documents for the material. Shelf Life must not be greater than 20% expended.	X
Source Inspection	16	Source inspection is required on all material after your final inspection and prior to packaging or shipping. Requests for source inspection shall be placed with the Quality Engineer 48 hours prior to the required time.	

Right of Entry	17	The Buyer's Quality Assurance representative, MAS's customer and/or their customer and any regulatory agency may perform audits and maintain surveillance of the seller's facility to assure compliance with the Quality Program, and evaluate the degree of capability and the continuing application of such ability to comply with these requirements. This function may also apply to sub-suppliers with the seller's cognizance. The seller shall provide such facilities and assistance as may reasonably be required by the Buyer's Quality Assurance representative in the performance of their functions.	X
Approved Sources Required	18	This order requires the use of Parker Meggitt approved sources or NADCAP approved sources for special processes. In the event that a customer approved processing source is required, Parker Meggitt's customer's name will be stipulated on the purchase order.	X
Quality System Requirements	19	The Supplier shall maintain a Quality Inspection System that conforms to ISO 9001 and/or AS9100.	X
Statistical Process Control	20	Statistical Process Control is required on this Purchase Order for the control of manufacturing, process, and fabrication of hardware.	
DFARS	21	The order for this part is issued pursuant to a U.S. Department of Defense Prime Contact. DFARS 252.225-7008, Restriction on Acquisition of Specialty Metals, and DFARS 252.225-7009, Restriction on Acquisition of Certain Articles Containing Specialty Metals, are applicable for this part. Specialty Metals used in making this part must comply with the requirements of this clause. This requirement shall be included in all subcontracts for items containing specialty metals.	
Radiographic Inspection	22	The radiographs and a copy of the laboratory x-ray report must accompany the material to the Buyer's facility.	
Flammability Test Report	23	Material furnished in fulfillment of this purchase order must be accompanied by a legible copy of a certified Flammability Test Report in compliance with FAR 25.853(a), Appendix F, Part 1(a) (iv).	
Webbing Certification and Packaging	24	Supplier shall provide a certification statement specifying the minimum strength of the material provided. Further the seller shall provide a certification statement stating compliance with FAR 25.853(a) and Pacific Scientific Company latest DR1187 and revision. Seller shall individually identify each roll and/or piece of webbing provided with the following minimum information: Parker Meggitt Ventura County Company Purchase Order Number, webbing type, size, color, and condition (U to denote untreated, is acceptable).	
ECMP Requirements	25	This product must be compliant per the applicable areas of the IEC / TS62239-1 standard. This is in addition to all compliance requirements as specified within the drawing or Purchase Order.	
Solder ability	26	Solder ability requirements as specified in NASA-STD-8739.3 and MIL-P-50884 are mandatory requirements for items procured on this Purchase Order.	
Plastic Parts	27	No re-grind material being used to fulfill this purchase order.	
Mercury Free	28	Part(s) shall be free of all mercury contamination. During the processing, the part(s) shall not come into direct contact with mercury, any of its compounds or with any mercury containing devices. The Supplier shall certify that the part(s), when shipped, are free from mercury contamination.	

Packaging Requirements	29	The Seller shall assure that all the supplies on the Purchase Order are packed and packaged using materials of a grade, size, and weight, which will provide adequate physical protection from damage and contamination during handling and transport to the point of delivery.	X
Export Regulations and Export Requirements	30	The items listed on the Purchase Order are subject to US laws and interpretation. The items are subject to U.S. Export Regulations. If the drawing states the material is ITAR restricted, ITAR requirements apply.	X
Material Test Report	31	A physical / chemical test report must accompany all shipments made against each item of this Purchase Order, which indicates the percentage of each element that makes up the chemical composition and physical properties of all raw materials. The report shall specifically identify the material by reference to the number of the melt, cast, heat, drop, lot, or other similar designation, and must indicate the applicable specification, revision, and Purchase Order designation. The seller shall maintain and provide the original mill certification and any secondary independent test laboratory certification(s) if any additional process was done after original mill certification for procured material that shall include physical properties, chemical analysis and lot number(s).	
Domestic Material	32	Raw material must be of domestic origin.	
Final Inspection Report	33	A copy of the sellers final inspection report detailing the result of the inspections performed on the lot being submitted shall be included with each shipment. The report shall also contain each of the following: 1) inspection lot size, 2) sample size selected, and 3) quantity of samples inspected which were found acceptable.	
Delegated Source Inspection	34	This item is on delegated source inspection (DSI). The supplier is required to submit an inspection data report for the item(s) specified in the purchase order. The supplier is required to submit evidence of DSI approval. Parker Meggitt will review characteristics on this inspection data report for conformance to the engineering drawing.	
Critical Characteristics Inspection	35	100% inspection is required for Critical Characteristics. Critical Characteristics are outlined on the drawing or by the Purchase Order. An inspection data report outlining the 100% inspection must be provided with each shipment. The inspection report must include data points for each part manufactured for each critical characteristic (e.g. if there are 100 parts and 1 critical characteristic then there will be 100 data points, if there are 100 parts with 3 critical characteristics then there will be 300 data points). Parker Meggitt will review characteristics on the inspection data report for conformance to the engineering drawing.	
Statistical FAI Inspection	36	In addition to an approved First Article Inspection Report per AS9102, shipments for the first 25 pieces shall be 100% inspected for dimensional compliance unless higher sample size is indicated by the applicable sampling plan. The results of the 100% inspection must be documented on an inspection data report. The inspection data report must be provided with the shipment. The inspection report must include data points for each part manufactured for each dimension (e.g. if there are 25 parts and 1 dimension then there will be 25 data points, if there are 25 parts with 3 dimensions then there will be 75 data points). Parker Meggitt will review characteristics on the inspection data report for conformance to the engineering drawing.	
SDS	37	A Safety Data Sheet (SDS) shall be provided from the manufacturer, importer, or distributor of the chemicals. The SDS shall have the hazard information needed for safe usage, handling and storage of chemical/product.	

Additional requirements for the Nuclear safety-related component	38	Implement the QA program that were audited and approved by Parker Meggitt base on the requirements of 10CFR 50 Appendix B The applicable requirements for Nuclear Safety-Related Component shall flow down to lower tier suppliers Submit the certifications and procedures/documents for Parker Meggitt Approval if there are any special process requirements or special process are implemented to product prior to the shipment Applicability of 10CFR21	
Product Homogeneity	39	All product supplied to this Purchase Order line item shall be from manufacturer's single lot and/or date code.	

PQAR / VQR TO SQR MATRIX

VQR#	SQR
1	19
2	16
3	2
4	Not used
5	3&31
6	28
7	22
8	21
9	7
10	15
11	1
12	17
13	14
14	10
15	8
16	Not used
17	4
18	8
19	9
20	19
21	11
22	29
23	25

PQAR#	SQR
1	19
2	3
3	32
4	5
5	6
6	3
7	7
8	7
9	12
10	4
11	18
12	8
13	15
14	16
15	Not used
16	7
17	17
18	17
19	20
20	11
21	2
22	Not used
23	26
24	31
25	Not used
26	1
27	33
28	24
29	23
30	30
31	21
32	19
33	27
34	13
35	30
36	30
37	9
38	10
39	14
11A	Separate Text
18A	17
2A	31
2B	Not used

REVISION RECORD

REV	Release Date	Prepared By	Summary of Changes	Approved Status
N/C	10-31-2018	Jeff Mandrell	Rewrite for SAP transition.	Approved
A	04-12-2019	Jeff Mandrell	Explicitly stated requirements for SQR 15 in initial paragraph. Corrected duplicate entries SQR 25, SQR 24	Approved
B	04-26-2019	Jeff Mandrell	Revised SQR 9	Approved
C	01-23-2020	Jeff Mandrell	Added SQR34 Delegated Source Inspection, SQR35 Critical Characteristic Inspection, and SQR36 Statistical FAI Inspection	Approved
D	06-29-2020	Tina Alanis	Add "A balloon drawing" requirement to SQR2	Approved
E	10-08-2020	Tina Alanis	Add "the seller shall maintain and provide the original mill certification" requirement to SQR3,5,6,9,31	Approved
F	04-12-2021	Tina Alanis	Add the detail requirements for CofC/CofA and page traceability to SQR1,add SQR37,remove the page gap between SQR30 and SQR31	Approved
G	09-22-2021	Tina Alanis	Add SQR38 for Nuclear Safety-Related component	Approved
H	11-10-2021	Tina Alanis	Add detail traceability requirement for spools or reels in SQR7 and add new SQR39 Product Homogeneity	Approved
J	05-09-2024	Joel Browning	Updated SQR-14 for special emphasis on special process changes, updated Meggitt to Parker Meggitt throughout. See 8D QN 550346221.	Approved

APPROVALS

Name	Title	Signature	Date
Oliver Wrighton	Division Sourcing & Procurement Manager	Approved by email	05-09-2024
Jaime Hernandez	Quality Manager, Compliance & Audits	Approved by email	05-08-2024
Joel Browning	Division Quality and Site Manufacturing Engineering Manager	Approved by email	05-09-2024