

Instructions to Suppliers:

The following table lists the Quality Clause Codes (QCC) that are used to communicate specific quality requirements to those who supply products to Fairbanks Morse Defense-Handling Canada (FMD-HC).

FMD-HC will add the applicable QCC's to the purchase order line item to identify quality requirements.

The documentation provided by the supplier will cover the total number of items that are listed in the quantity column of the line item. The supplier is not required to supply separate documents for each individual item; one document may be used to confirm that the requirement has been met for all of the parts inspected.

Unless indicated otherwise, each shipment of parts will be accompanied by the documents required for the parts that are delivered (for example: partially completed orders that are delivered in separate shipments will each contain the documents that apply to the parts shipped).

Where practical, the supplier may provide one document that confirms the fulfillment of different Quality Clause Code requirements.

NOTE: If a specification or (other document) is referred to in a QCC, use the revision of the specification that is in effect at the time the purchase order is issued.

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QCC Number	QCC Name	Requirement Description
QCC 01	Minimum Inspection System Requirements	The supplier is responsible for ensuring that all inspections and tests have been performed that are necessary to substantiate that the supplies or services furnished under this purchase order conform to the specification requirements and comply to any quality clause codes called out on the purchase order. Upon acceptance of this purchase order, the supplier agrees to meet all requirements. Parts shall be made of new material only. All repair to out- of -specification conditions or requests for deviation must be submitted to FMD-HC QA or technical contact using form QF-10-06 (supplier request for deviation) prior to shipment. During procurement of this order, the vendor's inspection system and manufacturing processes may be subject to review, verification, and analysis by FMD-HC and/or customer representatives. FMD-HC / customer inspection or release of product before shipment is not required, unless otherwise noted. The supplier shall retain all records associated with this PO for a minimum of six years or for the life of the project as requested by FMD-HC. All US Government contractors and suppliers are responsible for understanding and acting on all applicable regulations (FARS/DFARS).
QCC 02	Inspection System Requirements	Deleted

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QCC 03	Source Surveillance	Surveillance by FMD-HC and/or customer personnel is required at the supplier's facility. The supplier shall provide all necessary facilities, inspection data, equipment and personnel to successfully complete the surveillance. FMD-HC shall be notified at least one week before the inspection point denoted in the purchase order, statement of work or inspection and test plan. If the surveillance is waived, a copy of the waiver shall be submitted with the product.
		3.1- Surveillance is required after the completion of fabrication and NDT.
		3.2- Surveillance is required during the completion of the Dimensional Report.
		3.3- Surveillance is required at final inspection and prior to shipment.
QCC 04	Certification of Conformance	A Certificate of Conformance that includes the following shall be included with each shipment : •FMD-HC purchase order number •Specification or drawing number (including revision) •Item description and quantity of each item furnished •A statement that the material and/or product conforms to the applicable purchase order requirements. •Date, signature and title of authorized representative See attachments for blank copy for use

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QCC 05	Acceptance Test Procedures	The supplier shall prepare and submit an Acceptance Test Procedure (ATP) for FMD-HC review and approval before the first shipment of parts. As a minimum the ATP shall include: •ATP Title and revision •Part name and number of the item to be tested •Test conditions •Issued date and/or revision date •Test equipment to be used (including calibration data) •Indication/description of tests to be performed •Test parameters and limits •Preparation and approval signatures •Page numbers and total number of pages Each test data sheet shall include: •Objective evidence of compliance •Part name, number, and serial number •Test document paragraph correlation •Date of test, final acceptance, and acceptor identification
QCC 06	Test Reports	Test reports shall contain the results of functional testing indicating conformance to the requirements detailed in the FMD-HC specification. These reports are not intended for material property testing but shall be traceable to the materials furnished. Copies of the test reports shall be included with each applicable shipment.

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QCC 07	First Article Inspection	The supplier shall perform first article inspection (100%) on the first part produced for all items and subassemblies supplied as per SAE AS9102 (including effective thread, splines, basic dimensions, and all notes). The supplier may utilize SAE AS9102 form, RR FAI Report form or an equivalent for the first article inspection and the requirements of it. Should the first article part be manufactured from a casting or forging, the source name shall be listed on the FAI form. The completed FAI form shall be submitted to FMD-HC for approval prior to release of the associated shipment. If the first article part/assembly is included within a shipment of other like parts/assemblies, a tag or suitable method of identification is required. NOTE: All out of specification requirements shall be reported to FMD-HC prior to shipment using form QF-10-06 (supplier waiver form). See attached for copy of SAE AS9102 for use
QCC 08	Hazardous Material	The supplier is required to submit Material Safety Data Sheets with each shipment. Shipping containers shall be identified with the appropriate warning labels.
QCC 09	Configuration of Parts	The supplier shall notify FMD-HC purchasing department of any changes to their original design that will affect component form/fit/function, material, or finish. This requirement will apply only if original component number does not change with the design.

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QCC 10	Certified Material Test Report (CMTR)	The supplier shall furnish certified material test reports for each line item identified on the PO and include them with the first shipment. The FMD-HC part number that each CMTR pertains to will be identified on the CMTR. Subsequent shipments from the same lot, manufactured from the same lot of materials, may reference that the certifications were sent with the first shipment, that they are on file and that they are available upon request. Multiple CMTRs may be required if more than one lot of material is used per purchase order. Heat treat certificates are required with the CMTR when material is to be treated as per the applicable part drawing. All CMTRs must be legible. Yield stress, ultimate tensile stress and elongation in a 2" or 4" sample must be included in the CMTR for all metallic raw material. For some plain carbon steels, and for heat treated alloy steels where yield, tensile and elongation are not typically reported, these may be omitted with approval. If extra testing is required on the drawing, test reports must be supplied to FMD-HC (ie. Charpy)
	10.1- Prior to commencement of manufacturing All CMTR's as noted above must be supplied to the FMD-HC QA. Where applicable , test report verifying mechanical and/or chemical properties must also be provided	
QCC 11	Special Process (Nuclear)	Deleted
QCC 12	MIL-STD, AMS/ASTM Specifications/ Revision Status	Unless otherwise specified on the purchase order, MIL-STD and/or AMS/ASTM specifications shall conform to the latest revision of the applicable military specifications at time of manufacture.
QCC 13	In-process Surveillance	Deleted
QCC 14	Final Surveillance	Deleted

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QCC 15	Final Tests	Deleted
QCC 16	Identification	<u>Package Identification</u>: The supplier shall mark package(s) with part number, revision number if applicable, and supplier identification. A Packing List shall be included with the shipment that identifies FMD-HC's purchase order number and date, shipped item(s) identification, FMD-HC's Quality Notification and/or Supplier Deviation Number (if applicable), and quantity furnished, and any items back ordered. <u>Part Identification</u> shall be in accordance with the FMD-HC drawings / specifications. <u>Quality Notifications</u>: Any parts associated with an active QN must be tagged with the associated QN number. <u>Supplier Deviation</u>: Any parts associated with a Deviation must be tagged with the associated Deviation Number. <u>Inspection Report</u>: All products associated with an IR (QCC20) should be labelled to match corresponding identifiers on the Inspection Report.

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QCC 17	Vendor Items Used On FMD-HC Assembly Drawings	Unless otherwise specified, the supplier shall procure vendor items listed on the FMD-HC drawings from the sources indicated, or from another FMD-HC authorized distributor. The supplier shall provide evidence with each shipment that the correct parts were used. NOTE: If the FMD-HC drawings denote the manufacturer as a "suggested" source of supply, then any equivalent part meeting the requirements of the original manufacturer's part may be used.
QCC 18	Inspection And Test Plan	The supplier is required to prepare and submit an Inspection and Test Plan to FMD-HC for approval prior to commencement of work. The plan will indicate the sequence of manufacturing and the relative location of planned inspection and test points, including incoming inspection, in-process inspection, and final inspection. Referenced inspection and test procedures shall be provided upon request. FMD-HC will designate on the ITP, any points for source inspection. RRNCM blank Inspection and Test Plan template can be found within the attachments.
QCC 19	Nuclear Quality Program Requirements	Deleted

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QCC 20	Inspection of Critical Dimensions	All drawing dimensions which are designated as critical shall be inspected for all parts. FMD-HC requires that inspection of critical dimensions include a copy of a bubbled drawing referencing item numbers on the inspection report. A completed inspection report detailing these dimensions is to be provided with the shipment. The inspection report shall include in the title block the name of supplier, drawing number and revision, drawing title, purchase order number, signature of the person performing the inspection and the date. The inspection report shall include columns for item number, dimension required, tolerance, actual measurement, method of inspection and Acc/Rej. If the supplier's inspection report does not include the above requirements, FMD-HC's blank inspection report form can be found within the attachments. Note: - If FMD-HC provides a populated inspection report with the PO, a bubbled drawing is not required. - All out of specification requirements shall be reported to FMD-HC prior to shipment using form QF-10-06 (supplier waiver form). - All products should be labelled to match corresponding identifiers on the Inspection Report. QCC 16.
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QCC 21	Welding Requirements	FMD-HC requires a welding certificate of conformance which indicates that the work performed complies with all drawing weld specifications. The C of C will include the FMD-HC PO number, FMD-HC drawing number, a statement that the weld conforms to the applicable specification, visual inspection, date, signature and the title of the authorized representative. Welds to be finished as per "QF-04-21, Weld Finishing Requirement", which can be found within the attachments. Where Welding Procedure Specifications (WPS) and Procedure Qualification Records (PQR) are required. Yield tests must also be performed when tensile testing is required in the qualification procedure
		21.0- All welds for the product described on this line item must comply with drawing specifications.
		21.1- All welds for the product described on this line item must comply with drawing specifications and be performed by qualified (AWS) and/ or certified (CWB) welders using approved procedures to the standard referenced on the drawing. Objective evidence of compliance (weld procedures, welder qualifications/certifications, relevant data sheets) must be maintained.
		21.2- delete
		21.3- All welds for the product described on this line item must comply with drawing specifications and be performed by qualified (AWS) and/ or certified (CWB) welders using approved procedures to the standard referenced on the drawing. Objective evidence of compliance (weld procedures, welder qualifications/certifications, relevant data sheets) must be supplied to FMD-HC for approval prior to the commencement of fabrication.
		21.4- delete
		21.5- delete
		21.6- All welds for the product described on this line item must comply with drawing specifications and be performed by qualified (AWS) and/ or certified (CWB) welders using approved procedures to the standard referenced on the drawing. Objective evidence of compliance (weld procedures, welder qualifications/certifications, weld consumable certificate, relevant data sheets) must be supplied to FMD-HC for approval prior to the commencement of fabrication . A weld map must be utilized to track each weld (joint type, qualification, weld consumable, inspection) throughout fabrication.

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	21.7 All welds for the product described on this line item must comply with drawing specifications and be performed by qualified (AWS) and/ or certified (CWB) welders using approved procedures to the standard referenced on the drawing. Objective evidence of compliance (weld procedures, welder qualifications/certifications, weld consumable certificate, , relevant data sheets) and a weld map must be supplied to FMD-HC for approval prior to the commencement of fabrication. The weld map that is supplied prior to fabrication must be utilized to track each weld (joint type, qualification, weld consumable, inspection) throughout fabrication.	
QCC 22	Deleted	
QCC 23	Synthetic Rubber Products	Use the applicable portions of this clause: <u>Cure date for synthetic rubber products delivered as end items:</u> The cure date for synthetic rubber products delivered as end items shall be marked on the unit packages in accordance with MIL-STD-1523. At least 75% of the shelf life must remain at time of receipt unless otherwise authorized by FMD-HC. <u>O-ring unit packaging:</u> O-rings shall be individually packaged and shall conform to MIL-P-4861, Level A. This requirement supersedes all other requirements (i.e. drawing or specification). <u>Cure date for assemblies containing synthetic rubber products:</u> Synthetic rubber products installed in assemblies supplied on this purchase order shall meet the age requirements of MIL-STD-1523 (Age Control of Rubber, General Specification) and shall be installed before their expiration date. In addition, all assemblies shall be marked with the cure date of the oldest synthetic rubber part in the assembly, as well as the date of assembly. Markings may be accomplished by decal, rubber stamp, or metal tag.

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QCC 24	Toxic Substances	Material supplied on this purchase order shall not contain any of the identified toxic substances. This requirement must be passed on to all subcontractors. The supplier shall provide certification (it could be an additional statement on the Certificate of Conformance) stating that material is free from the identified toxic substances with each shipment. Any deviation requests to this requirement must be approved (using QF-10-06) by FMD-HC prior to shipment of the product. The point numbers below indicate the individual substance the documentation is required for.			
	24.1-Methylene chloride,	24.2- Carbon Tetrachloride	24.3- Xylene	24.4- Benzene	24.5-Trichloroethylene
	24.6- Mercury	24.7- Beryllium	24.8- Cadmium	24.9-Chromium	24.10- Chloroform
	24.11 - Asbestos	24.12 - PCBs	24.13 - Lithium	24.14 - Magnesium	24.15 - PVC
	24.16 – Zinc or Zinc Alloys	24.17 – Ozone Depleting Chemicals (ODCs)			
QCC 25	Qualified Products List Item	It is required that the manufacturer of the product supplied for this purchase order be certified and the product be listed on the Qualified Products List (QPL), or in the case of microcircuits, be listed in MIL-HDBK-103 at time of manufacture. Suppliers shall certify that the item supplied is a certified, QPL item.			
QCC 26	Process Specification – BOPS 1.044	The requirements of the process specification BOPS 1.044 are applicable to this order.			
QCC 27	Shelf Life	The supplier shall be responsible for labelling shelf-life items. Each unit package shall be identified with the part number, date of manufacture, storage expiration, and name of manufacturer as applicable. At least 75% of the shelf life must remain at the time of receipt by FMD-HC unless otherwise specified on the Purchase Order.			

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QCC 28	Process Specification – BOPS 1.040	The requirements of the process specification BOPS 1.040 are applicable to this order.
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QCC 29	Printed Wiring Boards/ Multiwire Boards	<u>Printed Wiring Boards (PWBs)</u> – Each lot of PWBs shall meet the requirements of MIL-PRF-31032 or MIL-P-50884, as applicable. PWBs shall be forwarded to FMD-HC with microsection reports and other quality reports as applicable. <u>Multiwire Boards</u> – Multiwire boards shall be manufactured and tested in accordance with IPC-DW-425. Boards shall be forwarded to FMD-HC with microsection reports and other quality reports as applicable. <u>Shelf Life</u> – Shelf life shall be established as one (1) year from date of manufacture (date code). At least $\frac{3}{4}$ (nine months) of the shelf life must remain at the time of receipt by FMD-HC. Suppliers releasing boards to FMD-HC that are over three months old will restore them by reflowing or alternative method (prior to shipment) to assure their solderability and to re-establish their shelf life. Boards with re-established shelf life shall be identified on certification papers by serial number, lot number, or other traceable identification. <u>PWB Material For Type I And Type II Boards</u> – Where epoxy resin construction is used (e.g. GF material) on Type I and Type II boards, the requirements of Ocean Systems material specification, BOMS 5062 apply. <u>Metal Core Boards</u> – For metal core boards, the requirements of Ocean Systems material specification, BOMS 1.031 applies. <u>Packaging</u> – All boards shall be packaged in Type II or Type III material in accordance with MIL-B-81705 before being placed in their shipping containers.
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QCC 30	J-STD-001	Parts supplied on this purchase order shall conform to the applicable requirements of J-STD-001 as specified by the drawing, specification, or purchase order. If the class is not specified, Class 3 will apply. Suppliers may use a higher standard, such as MIL-STD-2000 if appropriate. FMD-HC shall receive a deliverable (may be a statement on the C of C) that this requirement has been fulfilled.
QCC 31	Electrostatic Discharge (ESD) Protection	ESD sensitive devices shall be packaged and marked in accordance with the applicable requirements of Electronics Industries Association EIA-625, and handled in a manner that will prevent mechanical or electrical damage and maintain the leads and terminals in the manufactured condition. The ESD sensitive devices shall be packaged in static shielding materials. The intermediate and exterior packages shall be identified.
QCC 32	Solderability	Parts that are to be soldered to surfaces at the next assembly level, shall be solderable upon receipt at FMD-HC, and meet the solderability requirements of the governing specification. Where possible, the supplier shall provide solderability test results with the shipment. For connectors with solderable pins, sample pins shall be provided when possible.

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QCC 33	Documentation for Processing (non-nuclear)		The supplier must provide certificates of conformance, travelers and test data for all processes specified on the drawing/purchase order. The FMD-HC part number that each certificate pertains to will be identified on the cert. The supplier shall furnish this documentation with the first shipment. Subsequent shipments from the same processing lots may reference the documents shipped with the first lot. The point numbers below indicate the individual process the documentation is required for.			
	33.1-anodizing	33.2-passivation	33.3-conversion coating	33.4-nickel plate	33.5-chrome plate	33.6-ion nitrite
	33.7-acid treat	33.8-ultrasonic inspection	33.9 – liquid penetrant insp.	33.10- magnetic particle insp.	33.11-deleted	33.12-runout tolerance
	33.13-carburize	33.14-pitch tolerance	33.15-lead tolerance	33.16-tooth profile	33.17-tooth surface	33.18-paint
	33.19-surface temper inspection	33.20-case hardening	33.21-core hardening	33.22-acid etching	33.23- brazing	33.24- zinc plating
	33.25- powder coating	33.26-radiographic insp.	33.27-stress relief	33.28-de-magnetize to 2 gauss max	33.29-Thermal Spray Coating	
QCC 34	Machining and/or cutting method restrictions		Machining and/or cutting methods, using heat or thermal energy for metal removal such as laser, electro-discharge machining (EDM), or plasma are prohibited. This restriction also applies to marking methods using heat or thermal energy.			
QCC 35	Control of OSL Drawings		The supplier must destroy all copies of FMD-HC drawings or return to FMD-HC upon completion of work. A letter must be sent with the product stating that drawings have been destroyed or the drawings may be returned with the final shipment.			
QCC 36	Source Control Drawings Provided with Products		Suppliers must provide an As-Built drawing/parts list of the product supplied that specifies overall dimensions and any interface dimensions. The drawing will include material coating and hardware specifications.			

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QCC 37	Sub-Tier Suppliers	It is the supplier's responsibility to approve, maintain and control sub-tier suppliers within their own Quality Management System. The supplier is responsible for the delivery, performance, and flow down of all contractual requirements to the sub-tier suppliers. ISO 9001 certified sub-tiers are preferred.
	37.1-Project Specific Subcontractor Approval	All subcontractors utilized must be included on the project specific approved vendors list. This list can be obtained via the Rolls-Royce purchasing agent.
QCC 38	Phytosanitary	The supplier must certify with a statement included in the C of C or a separate document that the product supplied is in accordance with the U.N. Food and Agriculture Organizations, International Plant Protection convention document (International Standards for Phytosanitary Measures No. 15-ISPM No. 15)
QCC 39	Travellers	The issued FMD-HC travellers shall be initialled, dated as complete and returned to Rolls-Royce with the product. If there is a QA hold point within the traveller, assembly work will stop and an FMD-HC QA representative will be contacted to complete a source inspection.

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QCC 40	Certificate of Origin	A Certificate of Origin (or CUSMA Certificate of Origin) must accompany all shipments to Rolls-Royce where the parts originate outside of Canada. The Certificate must identify all parts specified on the purchase order. Instructions can be found at the following link: Certifying the origin of goods, Step-by-step guide to CUSMA compliance - Tradecommissioner.gc.ca . Sample Certificate of Origin forms or CUSMA Certificate of Origin forms can be provided by contacting the FMD-HC purchaser.
QCC 41	HS&G Toxic Substances	Deleted
QCC 42	ROHS Compliant	Certification must be forwarded with the product (may be a statement on a C of C) that the product is ROHS compliant.
QCC 43	ORCA Toxic Substances	Deleted
QCC 44	AWD Toxic Substances	Deleted
QCC 45	Restriction of purchased material from China	The material, goods or services supplied on this purchase order must not be purchased directly from China. The supplier will endeavor to source material from alternate sources as much as possible. If this clause cannot be complied with, the supplier will submit a supplier waiver to FMD-HC for disposition of the material. For COTS components (eg fasteners, electrical components), the supplier will make an effort to source material not produced in China. If the supplier has any questions with regards to these requirements, they should be directed to the purchaser listed on the FMD-HC purchase order.
QCC 46	DFARS	The material, goods or services supplied on this purchase order must meet the requirements of Defence Federal Acquisition Regulations Supplement 252.225-7014 (specialty metals provision) .

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QCC 47	Heat Treatment	The supplier must provide certificates of conformance and test data (heat treatment charts) for each component. The FMD-HC part number that each certificate pertains to will be identified on the cert. The supplier shall furnish this documentation with the first shipment.
	47.1- All Materials (hardness test)	The supplier must provide certificates of conformance (C of C) and test data (heat treatment charts) for each component. The FMD-HC part number that each certificate pertains to will be identified on the cert. The supplier shall furnish this documentation with the first shipment. This part is to be heat treated with extra material (a coupon) from the same heat in which it was fabricated. The thickness shall be representative of that of the heat-treated part. If part material sections include thicknesses of both 0.5" and below as well as 1.5" and above, then two coupons are to be tested for both the thickest and the thinnest section to be treated. After heat treatment, coupons are to be tested for hardness with a calibrated hardness tester. Results to be reported on the above-mentioned C of C as well as sent to the FMD-HC buyer as soon as possible. Coupons shall be suitable to perform tensile, yield and elongation as per ASTM B557 if required. Coupons are to be stored at the supplier's facility for no less than 1 year from time of heat treatment.

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	47.2 – All materials (mechanical tests) The supplier must provide certificates of conformance and test data (heat treatment charts) for each component. The FMD-HC part number that each certificate pertains to will be identified on the cert. The supplier shall furnish this documentation with the first shipment. This part is to be heat treated with extra material (a coupon) from the same heat in which it was fabricated. The thickness shall be representative of that of the heat-treated part. If part material sections include thicknesses of both 0.5" and below as well as 1.5" and above, then two coupons are to be tested for both the thickest and the thinnest section to be treated. After heat treatment, coupons are to be tested per ASTM B557 or FMD-HC approved equivalent to determine tensile strength, yield strength (as measured with extensometer) and elongation of heat-treated material. Test coupons shall comply with minimum values required by the aluminum specification stipulated on drawing. Results to be reported on the above-mentioned C of C as well as sent to the FMD-HC buyer as soon as possible. Coupons are to be stored at the supplier's facility for no less than 1 year from time of heat treatment.
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QCC 48	Counterfeit Parts	Vendor shall not deliver Counterfeit or suspect-Counterfeit work to FMD-HC. "Counterfeit Work" means work that is or contains items which imitate authentic items. "Counterfeit Work" also means work that is altered in such a way that it is non-compliant to the required specifications. Suppliers shall only purchase products directly from the OCM/OEM, or through an OCM/OEM authorized distributor chain and if requested be able to provide documentation that authenticates traceability of the items to the applicable OCM/OEM. Supplier shall include this clause or equivalent provision in lower tier orders for delivery of items that will be included in or furnished as work to this component.
QCC 49	Lloyd's Procurement Plan	The supplier is required to follow Lloyd's Procurement Plan. The suppliers will be responsible for liasoning with LR and RR to schedule all necessary surveys/inspections required by this document as well as the RR approved product Inspection and Test Plan (ITP). The plan will indicate procurement of material, weld qualifications, NDT testing, machinery and COTS components. This document can be obtained via the Rolls-Royce purchasing agent.
QCC 50	Lifed Items	The supplier shall be responsible for labelling lifed items. Each unit package shall be identified with the following. - Lifed Item Manufacture Date: refers to the date at which a product becomes the item it is supposed to be, or as it is described in its specifications/technical literature - Lifed Item Proof Test Date: refers to the date at which a stress/pressure test was carried out to determine the fitness of the component, where it was subjected to loads above that expected during normal use. - Lifed Item Cure Date: refers to the date at which the rubber is fully moulded in the curing process and is made up of the quarter and year i.e. January 2001 would be written as 1Q01.

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REVISION HISTORY:

Revision	Date	Description	Approval
1.0	10-Jun-26	Release to FMD-HC template	Arun Singh