

Requirements for Design Make/Design Only Suppliers – RRES 90009

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Job Title: Chief of Engineering Quality Operations
Business Unit: Central Engineering Quality

NTS Number: 449
Issue: 1
Date: December 2018

For the attention of Engineering Manager and Engineering Quality Manager

Dear Sir or Madam,

Scope/Applicability:

All Design and Development suppliers contracted to supply items in accordance with SABRe/GS3001.

Introduction:

RRES 90009 is the Specification that defines the requirements for Design and Development activities carried out on behalf of Rolls-Royce in the supply chain.

The latest Rev L revision has undergone a simplification activity and the key changes that you should be aware of are detailed below:

- Duplication of requirements that are within ISO9001/AS9100/SABRE have been removed
- Business applicability has been introduced in the form of Applicability Matrix to introduce scalability of specific requirements
- New requirement of RRES 90073 Requirements for Bespoke Software Design and Development introduced at this revision
- Naval Marine required incorporation at this revision
- Option of performing RRES 90009 Self-Assessment in lieu of ESID/DDQP added

Note: a detailed summary of the changes from Revision J to L is attached to this NTS to aid the transition.

Note: Revision K was approved in June 2018 but not formally deployed to the supply chain.

Action Required:

Suppliers managed via Global Indirect Procurement (Rig and whole engine testing, Aerospace non powerplant), Civil Nuclear, Submarines and IT, are required to deploy Rev L with immediate effect. See Rev L document for definitions of such Suppliers.

Naval Marine suppliers and partners are required to:-

- Review RRES 90009 Revision L and feedback any questions to the appropriate Supplier Management Team.
 - Use the updated compliance self-assessment to address any compliance gaps
 - Participate in any required training to assist implementation and address compliance gaps
 - All suppliers are required to transition to RRES 90009 Rev L by the end of 1st June 2020

Aerospace Power Plant Suppliers and Partners are required to:

- Review RRES 90009 Revision L and feedback any questions to the appropriate Supplier Management Team:
 - Use the updated compliance self-assessment to address any compliance gaps
 - Participate in any required training to assist implementation and address compliance gaps
 - All suppliers are required to transition to RRES 90009 Rev L by the end of 1st June 2020

- All new approvals shall be in accordance with latest revision of RRES 90009
- Where RRES 90009 or EDS733 are called up on the Rolls-Royce Envelope drawing or Source Control drawing the latest revision of RRES 90009 shall apply

Note: An initiative has been launched with the AESQ (Aero-Engine Supplier Quality group) to create a common cross-industry international standard for Design and Development requirements. This is in addition to the ongoing initiative with ASD (Aerospace and Defence Association of European Industry) leading to industry standards published by ASD-STAN (pr-EN). Should either of the above issued prior to June 2020, there may be the potential to simplify the requirements and retire RRES 90009. We will keep you informed of progress during 2019.

A copy of RRES 90009 Revision J (annotated to confirm it has been superseded) and L can be accessed via the Global Supplier Portal. Any questions or concerns regarding this specification or its applicability should be forwarded to your usual Rolls-Royce point of contact.

NTS Category:

Engineering/Technical

Global Business Service

Authorised by:

Sally Twisleton
Head of Engineering Quality

Mark Heaton-Watts
Quality Audit Executive – Group Business Services

RRES 90009 Rev L AMENDMENT RECORD NTS

	Item /Contents	
RRES 90009 Rev L	Contents	Appendix A added to introduce RRES 90009 mapping against AS9100/ISO9001 and SABRE Rev J Appendix A re- numbered to Appendix B Rev J Appendix C deleted. Replaced with Rev J Appendix B re-numbered as Appendix C Rev J Appendix D No change Appendix E new template to confirm change control requirements for D&E suppliers only
RRES 90009 Rev L	1 Scope	No change to title
	Requirement 1.1	Updated to include additional ESID/DDQP requirements and clarification of supplies use of their own rules and tools.
	1.2	Requirement updated to clarify applicability between separate legal entities
	1.3	RFS1555 - Initiator Steve Willoughby – Supplier Quality Manager, Global IT - Updated to include new approval requirements in line with RRES 90073 detailing requirement for software suppliers. – Note: This is the only way that RRES90073 is enacted for Software Design in the Supply Chain.
	1.4	Rephrased to simplify the requirement. RFS1784 – Initiator – Pete Bilbie Self-Assessment Requirement added
	1.5	New item at revision K to introduce the scalability for business and commodity requirements. RFS1783 – Initiator – Pete Bilbie Naval Marine Category H added to scope RFS1784 – Initiator – Pete Bilbie Self-Assessment Requirement added post ballot request from RRNA Defence Note 3 added clarification where RRES 90009 or EDS 733 are referenced on the drawing the latest version of RRES 90009 (Rev L) applies
	2	Reason for issue updated to reflect a summary of the Revision L update
	3	Updated to remove the requirement to contact sectors technical authority as this is covered in change control.
	3.1	The following document references were added to Rolls-Royce Document listing. ESID, RRDS 10048, RRES 90023, RRES 90073
	3.2	No change
	3.3	Rev J SAE publication re sequenced. US Government Publications introduced at revision K
	3.4	Rev J item 3.3 re-numbered to 3.4
	3.5	Introduced ISO9001 reference at Revision K. RFS 1670 – Initiator Pete Bilbie
	3.6	Rev J item 3.6.1 re-numbered at Revision K
	3.7	New supplier document 'Airlines for America' introduced at revision K
	4.0	Following changes have been applied to the definition: Conformance Control Features definition removed Notes added to confirm ESID requirement supersedes DDQP Definition Alteration Request added Key Characteristics definition updated to refer to Aerospace SABRe. Key Characteristic Features definition removed May and Must definitions added Non-Powerplant and Power plant definitions introduced at revision K to align with SABRe. Proprietary parts definition updated

		Salvage definition removed to align with the RRMS Services definition added at revision K Technical Approval Authority updated to remove Energy and Marine references. Validate replaced with validation Removed Verification Test Procedure
	5.0	Following changes have been applied to the acronyms section: ADS, ALARP, ATA, DIN, GSE, HS&E Added at revision K to align with the process update. DR, KCF, MCRL, NADCAP, NPI, RFA and REACH have been removed at revision K to align with the standard update.
	6 Requirements	No change
	6.1	No Change
	6.2	No Change
	6.2.1	No change
	6.2.1.1	Replaced Revision J item 6.2.1.1. Introduced formal communication from Rolls- Royce when an ESID is required. Self-Assessment context added.
	6.2.1.1.1	New item to clarify supplier and Rolls-Royce collaboration on the ESID development. Self-Assessment context added.
	6.2.1.2	Self-Assessment context added.
	6.2.1.3	RFS 1670 – Initiator Pete Bilbie Rev J requirements removed as covered by AS9100/ISO9001. New wording for Rev K requirements confirms integrated cross functional approach reworded from revision J item 6.2.19.
	6.2.1.4	No Change
	6.2.1.5	RFS 1670 – Initiator Pete Bilbie Removed as Rev J requirements now covered by AS9100/ISO9001. Revision K 6.2.1.5 replaced item 6.2.17 in revision J
	6.2.1.6	RFS 1670 – Initiator Pete Bilbie Removed as Rev J requirements now covered by AS9100/ISO9001.
	6.2.1.7	Rev J content covered in item 6.2.1.5
	6.2.1.8	RFS 1670 – Initiator Pete Bilbie Removed as Rev J requirements now covered by AS9100/ISO9001.
	6.2.1.9	RFS 1670 – Initiator Pete Bilbie Removed as Rev J requirements now covered by AS9100/ISO9001.
	6.2.2	No change
	6.2.2.1	No change
	6.2.3	No Change
	6.2.3.1	RFS 1670 – Initiator Pete Bilbie Rev J wording removed as covered by AS9100/ISO9001. Rev K update is a consolidation of rev J requirements 6.2.3.2 and 6.2.3.3
	6.2.3.2	RFS 1670 – Initiator Pete Bilbie Rev J wording removed and detail not covered in AS9100 and ISO9001 are now captured in 6.2.3.1
	6.2.3.3	RFS 1670 – Initiator Pete Bilbie Rev J wording removed and detail not covered in AS9100 and ISO9001 are now captured in 6.2.3.1
	6.2.3.4	Rev J requirement replaced with a note. Not a requirement
	6.2.4	No change
	6.2.4.1	Rev K update is a consolidation of rev J items 6.2.4.1 through to 6.2.4.5. Clarification that the ESID will formally capture any Technical Authority delegated by Rolls-Royce to the supplier.
	6.2.4.2	Rev J Item removed see item 6.2.4.1 change for details
	6.2.4.3	Rev J Item removed see item 6.2.4.1 change for details
	6.2.4.4	Rev J Item removed see item 6.2.4.1 change for details
	6.2.4.5	Rev J Item removed see item 6.2.4.1 change for details
	6.3	Rev J Title reworded to clarify development of products and services
	6.3.1	No Change
	6.3.1.1	No Change
	6.3.1.2	No Change
	6.3.1.3	Rev J item deleted as covered by AS9100/ISO9001.

		Rev K item renumbered from rev J item 6.3.1.4
	6.3.1.4	Re numbered from Rev J item 6.3.1.5 shall added to mandate the requirement
	6.3.1.5	Rev J item deleted and re numbered to item 6.3.1.4
	6.3.1.6	RFS 1670 – Initiator Pete Bilbie Rev J item deleted covered by AS9100/ISO 9001
	6.3.1.7	RFS 1670 – Initiator Pete Bilbie Rev J item deleted covered by AS9100/ISO 9001
	6.3.1.8	RFS 1670 – Initiator Pete Bilbie Rev J item deleted covered by AS9100/ISO 9001
	6.3.2	No Change
	6.3.2.1	No change
	6.3.2.2	Rephrased to clarify the requirement
	6.3.2.3	RFS 1670 – Initiator Pete Bilbie Rev J item removed 6.3.2.3 as covered by AS9100/ISO9001 and replaced with Rev J item 6.3.2.4
	6.3.2.4	Rev J item renumbered from 6.3.2.5. RRDS10048 added to introduce Zero Defects approach. Items 6.3.2.6 – 8 deleted. Self-Assessment context added.
	6.3.2.5	Rev J item deleted and replaced rev J item 6.3.2.9 reworded to clarify the requirements. Self-Assessment context added.
	6.3.2.6	Rev J item deleted as now covered by item 6.3.2.10 RFS 1670 – Initiator Pete Bilbie Items 6.3.2.11-12 deleted as covered by AS9100/ISO 9001
	6.3.2.7	Rev J item deleted as now replaced by Rev J item 6.3.2.13
	6.3.2.8	Rev J item deleted as now replaced by Rev J item 6.3.2.14
	6.3.2.9	RFS1460 – Initiator – Mike Wilson Rev J item deleted as now replaced by Rev J item 6.3.2.15 and 6.3.2.16
	6.3.2.10	Rev J item deleted as now covered by item 6.3.2.17. Item rephrased to simplify the requirement
	6.3.3	No Change
	6.3.3.1	Rev J item simplified. Note added to replace Rev J requirement 6.3.3.3
	6.3.3.2	RFS 1670 – Initiator Pete Bilbie Rev J item deleted as covered by As9100/IS9001. Item now covers reworded detail from Rev J 6.3.3.4.
	6.3.3.3	Rev J item deleted and replaced with rephrased item 6.3.3.7
	6.3.3.4	RFS 1670 – Initiator Pete Bilbie Rev J item deleted as covered by AS9100/ISO9001. Item now replaced content from Rev J item 6.3.3.11 with Lessons Learnt removed
	6.3.3.5	RFS 1670 – Initiator Pete Bilbie Rev J item removed as covered by AS9100/ISO 9001. New item renumbered from 6.3.3.14. Note introduced at this item replaces Rev J item 6.3.3.15
	6.3.4	No Change
	6.3.4.1	Re phrased to clarify the requirement
	6.3.4.2	Self-Assessment context added.
	6.3.4.3	Rev J item split out to 6.3.4.3 and 6.3.4.4 simplified to clarify the requirements
	6.3.4.4	Rev J item split out to 6.3.4.3 and 6.3.4.4 simplified to clarify the requirements
	6.3.4.5	Rev J item 6.3.4.4 rephrased and re numbered
	6.3.4.6	Rev J item 6.3.4.5 rephrased and re numbered
	6.3.4.7	New requirement introduced at this revision
	6.3.5	No Change
	6.3.5.1	No Change
	6.3.5.1.1	No Change
	6.3.5.1.2	No Change
	6.3.5.1.3	No Change
	6.3.5.1.4	Rev J PFMEA removed and reference updated
	6.3.5.1.5	No Change
	6.3.5.1.6	No Change
	6.3.5.1.7	No Change
	6.3.5.1.8	RFS 1670 – Initiator Pete Bilbie Rev J bullet points removed as

		detail covered in AS9100/IS9001
	6.3.5.1.9	No Change
	6.3.5.2	No Change
	6.3.5.2.1	No Change
	6.3.5.2.2	No Change
	6.3.5.2.3	No Change
	6.3.5.2.4	No Change
	6.3.5.2.5	No Change
	6.3.5.2.6	No Change
	6.3.5.2.7	No Change
	6.3.6	No Change
	6.3.6.1	Rev J Items 6.3.6.1 and 2 consolidated and worded to cover Technical Authority will be captured in the ESID. RFS 1670 – Initiator Pete Bilbie Rev J items 6.3.6.3-7 removed as covered by AS9100/IS9001
	6.3.7	No Change
	6.3.7.1	No Change
	6.3.7.2	No Change
	6.3.7.3	Deleted item removed
	6.3.7.4	Rev J items removed Intellectual Property covered by SABRE Note : this negates the need for RFS 1459 – Initiator –Mike Wilson
	6.3.7.5	Rev J items removed Intellectual Property covered by SABRE Note : this negates the need for RFS 1459 – Initiator –Mike Wilson
	6.3.7.6	Rev J items removed Intellectual Property covered by SABRE Note : this negates the need for RFS 1459 – Initiator –Mike Wilson
	6.3.7.7	Rev J items removed Intellectual Property covered by SABRE Note : this negates the need for RFS 1459 – Initiator –Mike Wilson
	6.3.8	No Change
	6.3.8.1	No Change
	6.3.8.2	No Change
	6.3.8.3	No Change
	6.3.8.4	RFS 1670 – Initiator Pete Bilbie Rev J item removed as covered by AS9100/ISO 9001.
	6.3.8.5	
	6.3.8.6	RFS 1670 – Initiator Pete Bilbie Rev J item removed as covered by AS9100/ISO 9001.
	6.3.8.7	RFS 1670 – Initiator Pete Bilbie Rev J item removed as covered by AS9100/ISO 9001.
	6.3.8.8	RFS 1670 – Initiator Pete Bilbie Rev J item removed as covered by AS9100/ISO 9001.
	6.3.9	No Change
	6.3.9.1	No Change
	6.3.9.2	RFS1501 – Initiator Marlen Moreno - Supply Chain Specialist, Chemical Management Services. Paragraph on REACH legislation requirements has been Genericized to encompass ANY global Substance elimination legislation that may be applicable to Rolls-Royce Product.
	6.3.9.3	RFS1501 – Initiator Marlen Moreno - Supply Chain Specialist, Chemical Management Services. New requirement for Suppliers to comply with MLC132 – Rolls-Royce Global Substance elimination Policy
	6.3.9.4	Rev J previous item 6.3.9.3 re-phrased
	6.3.9.5	Rev J item deleted and reworded in line with RFS 1501– Initiator Marlen Moreno - Supply Chain Specialist, Chemical Management Services.
	6.3.9.6	Rev J note removed as covered by applicability matrix
	6.3.9.7	Control plan requirement clarified
	6.3.9.8	No Change
	6.3.9.9	No Change
	6.3.10	No Change

	6.3.10.1	Rephrased and applicability confirmed in the matrix
	6.3.10.2	RFS 1670 – Initiator Pete Bilbie Rev J item removed as covered by AS9100/ISO9001
	6.3.11	No Change
	6.3.11.1	No Change
	6.3.11.1.1	New requirement added for category D and E only
	6.3.11.2	No Change
	6.3.11.3	RFS 1670 – Initiator Pete Bilbie Rev J item removed requirement covered by AS9100/ISO9001
	6.3.12	No Change
	6.3.12.1	No Change
	6.3.12.1.1	New required added for Aerospace Rig Testing and Engine Testing Category D only. Test Service only comment added.
	6.3.12.2	No Change
	6.3.12.2.1	Rev J item renumbered item 6.3.12.2.2. cage code reference removed.
	6.3.12.2.2	Rev J item renumbered item 6.3.12.2.1
	6.3.12.2.3	No change
	6.3.12.2.4	Rev J deleted item removed
	6.3.13	Rev J title updated to remove 'salvage' reference. See RFS1457– Initiator David Allen - Chief of Component Engineering - Transmissions
	6.3.13.1	RFS 1457 – Initiator David Allen - Chief of Component Engineering - Transmissions Reworded to remove salvage reference
	6.3.13.2	RFS 1457 – Initiator David Allen - Chief of Component Engineering - Transmissions Reworded to remove salvage reference
	6.3.14	No Change
	6.3.14.1	Combined rev J items 6.3.14.1 and 6.3.14.2
	6.3.15	No Change
	6.3.15.1	No Change
	6.3.15.2	No Change
	6.3.15.3	Rev J typo corrected.
	6.3.16	Rev J component proving requirement deleted as covered by SABRe. Number retained as a deleted item to maintain ESID traceability
	6.3.17	No Change
	6.3.17.1	No Change
	6.3.17.2	No Change
	6.3.17.3	RFS1565 – Initiator Skylar Conn – RRC Materials Engineering This requirement new added to NDE section to close out Red top Lesson Learned (LL2225)
	6.3.18	Rev J title updated to reflect standard parts
	6.3.18.1	RFS 1670 – Initiator Pete Bilbie Rev J item deleted as detailed covered in AS9100/ISO9001. New item renumbered from Rev J item 6.3.18.2
	6.3.18.2	Re-number Rev J item 6.3.18.3
	6.3.18.3	Re-number Rev J item 6.3.18.4 and appendix E reference added
	6.3.18.4	Re-number Rev J item 6.3.18.5
	6.3.19	Rev J note deleted as item covered in item 6.3.5
	6.3.20	No Change
	6.3.20.1	No Change
	6.3.21	Title updated to include service run parts
	6.3.21.1	No Change
	6.3.21.2	No Change
	6.3.21.3	No Change
	6.3.21.4	No Change
	6.3.21.5	No Change
	6.3.22	No Change
	6.3.22.1	Rev J item deleted as covered by SABRe Item renumbered and rephrased from item 6.3.22.2
	6.3.23	No Change
	6.3.23.1	No Change

