# SABRe

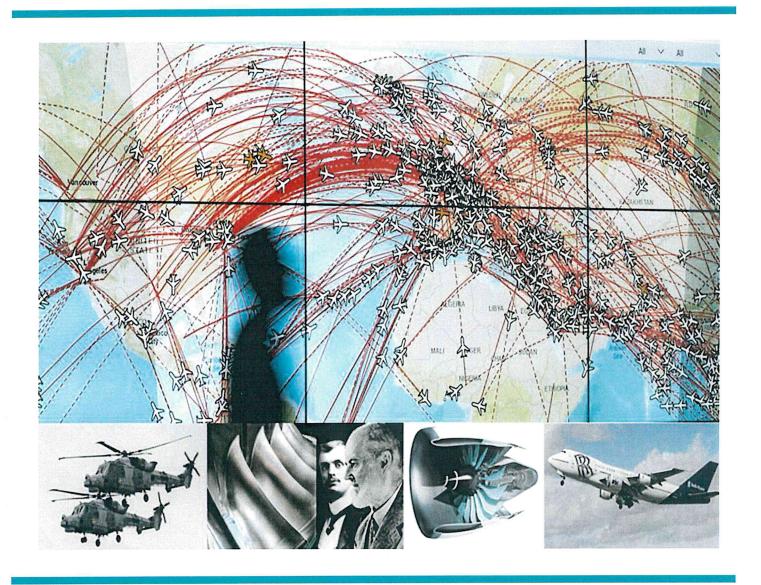


## Supplier Management System Requirements

## Aerospace

Revision 1.3 May 2020

Edition 3



#### **SABRe**

# Supplier Management System Requirements Appendix A – Quality Management System Certification Requirements

	Supplier Type	Rolls-Royce Approval Required?	Minimum Third Party Approval Requirements (Suppliers can define higher requirements based upon risk)
Manufacturing or Maintenance Services	Integrator	Yes	AS/EN/JISQ 9100 or AS9120
	Raw Material Stockist / Distributor	No <sup>14</sup>	ISO 9001 <sup>5</sup>
	Rolls-Royce Component Stockist	Yes	AS/EN/ 9120 or ASA-100
	Materials Testing Laboratory [acceptance and release of production material (Chemical, Metallographic, Mechanical testing Uniaxial and constant load testing)]	No	Nadcap or ISO/IEC 17025 or Equivalent National Accreditation <sup>2,6</sup>
	Inspection and measurement services	No	ISO/IEC 17025 or AS/EN/JISQ 9100 or AC 7004
	Calibration laboratories	No	ISO/IEC 17025 or calibration traceable to a laboratory holding ISO/IEC 17025

**Note 2**: Captive laboratories may utilise AS/EN/JISQ 9100 provided that the scope incorporates Manufacture and Testing of Material, and the supplier participates in the Rolls-Royce Approved Proficiency Testing Programme (<a href="https://ptpscheme.com">https://ptpscheme.com</a>).

**Note 6**: All Rolls-Royce specifications and requirements for the testing must be flowed down to the facility completing the testing by their direct customer. Additionally, for materials controlled by RRMS30031, exceptions to approval requirements may be noted in MLC104.

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### Rolls-Royce Testing Matrix<sup>1</sup>

Rolls-Royce Test Code	Test Description	EBA Procedure	EBA Nadcap Test Code
Material Test	Atomic Emission		1000000
Spectrographic (Industry Standards)	Spectroscopy-Spark/Ark (OES)	C223	F3
Material Test Chemical	Elemental Analysis Carbon	C205	G1
(Industry Standards	Elemental Analysis-Sulfur	C205	G5
Salt Spray ASTM B117	Corrosion-General	B201	Q
	Metallography-General	B213	L0
	Microhardness-Interior (Knoop/Vickers)	B208	L1
Material Test Metallographic	Near Surface Examinations Microhardness (Surface – Knoop/Vickers)	B208	L5
(Industry Standards)	Nitriding	B220	L6
	IGA/IGO	B214	L7
	Carburization/Decarburization	B212	L10
	Grain Size	B218	L11
	Inclusions	B204	L12
	Metallography-Macro	B205	XL
	Room Temperature Tensile	A201	Α
Material Test Physical	Impact Testing	A202	N
Material Test Physical	Bend Testing	A203	XN
(Industry Standards)	Hardness – Rockwell	A200	M2
	Hardness – Vickers (Macro)	B208	М3
Material Test Non-Metallics (Industry Standards)	A2LA Mechanical and Chemical Scopes	Various ASTM Test Methods	N/A

#### Note:

- 1. Per SABRe Aerospace Supplier Management System Requirements dated May 2020 Does not require Rolls-Royce Approval for Manufacturing or Maintenance Services (acceptance and release of production material chemical, metallographic, mechanical testing). Does require Rolls-Royce Approval for Engineering Services.
- 2. All Rolls-Royce specifications and requirements for the testing must be flowed down to the facility by their direct customer. Additionally, for materials controlled by RRMS30031, exceptions to approval requirements may be noted in MLC104.