#### SOUTH AFRICAN



# AIRCRAFT MAINTENANCE ORGANISATION APPROVAL CERTIFICATE

in terms of the CIVIL AVIATION REGULATIONS, 2011.

AMO NUMBER:

1295

EXPIRY DATE:

31/03/2024

**AMO CATEGORY RATING:** 

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NAME OF CERTIFICATE HOLDER:

Safran Aircraft Engines (SNECMA)

Spec

PHYSICAL ADDRESS OF CERTIFICATE HOLDER:

Safran Aircraft Engines (SNECMA) 2 Boulevard du General Martial Valin

Molesy Cramayel
Paris Cedex 15
Magny Les Hameaux

**COMPANY REGISTRATION:** 

414815217

The organisation is hereby authorised to operate as an Aircraft Maintenance Organisation. The Operations Specification (Ops Specs) is attached hereto as part of the approval issued to the above organisation and should be treated as part of the legal requirements. The organisation may only exercise privileges as stipulated in its specific operating specifications.

I hereby certify that the holder of this certificate of approval has been duly approved in accordance with part 145 of the South African Civil Aviation Regulations, 2011. This certificate shall continue in effect unless cancelled, suspended, revoked or expired. This certificate is not transferable.

OF CIVIL AVIATION

For DIRECTOR OF CIVIL

Capt Eric Mataba Acting Executive: ASO

NAME IN BLOCK LETTERS

26 March 2023

DATE OF ISSUE

CA 145-C-01

**03 FEBRUARY 2020** 

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SOUTH AFRICAN



Section/division Telephone number:

Postel address:

AIRWORTHINESS: AIRCRAFT MAINTENANCE ORGANISATION

Form Number: CA 145-19a

011-545-1000

Email: airworthiness@caa.co.za Physical address Ikhaya Lokundiza, 16 Treur Close, Waterfall Park, Bekker Street, Midrand, Gauteng Private Bag X73, Halfway House 1685 Website: www.caa.co.za

#### CIVIL AVIATION AUTHORITY

#### **OPERATIONS SPECIFICATIONS FOR AIRCRAFT MAINTENANCE ORGANISATIONS**

Name of C	)rganisati	on	Safran Air	craft Eng	gines (SNE	CMA)				
Approval Number SA0			AA.OPSSP	EC.12	Opspecs	Revision	status	3	3	
PART A	TABLE	OF CC	ONTENTS, I	IST OF	EFFECTIV	/E PAGES	, AND RA	TINGS AUTH	ORITY	
Table of Contents			List of effective Pages	Page I	revision	Effective date		Authorized	Unauthorized or N/A	
Table of Co & Rating au	ıthority	P's	Page 1		3			Х		
Definitions abbreviation	15		Page 2					Х		
Category A			Page 3						X	
Category B			Page 4						X	
Category C	-Ratings		Page 5						X	
Category D	-Ratings		Page 6		3			х		
Category E-	Ratings		Page 7						X	
Category W-Ratings			Page 8						X	
Category X-Ratings			Page 9						Х	
Limited Rating			Page 10		3			X		
Exemption a Authority		- 1	Page 11						Х	
Satellite Fac station Ratin		ne	Page 12						Х	
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PART B	DEFINITIONS AND ABBREVIATIONS
abbreviations have Aviation Act, as ar	defined in these operation specifications provisions, all words, phrases, definitions, and e identical meanings to those used in the South African Civil Aviation Regulations and Civil mended. Additionally, the definitions listed below are applicable to operations conducted in nese operations specifications provisions.
AMO	Aircraft Maintenance Organisation
AMP	Aircraft Maintenance Programme
SACAA	South African Civil Aviation Authority
CAR	Civil Aviation Regulations
MOP	Manual of Procedure
Certificate Holde	the South African Civil Aviation Regulations of 2011 as amended.
Rating	Means an authorization entered on or associated with an AMO approval and forming part of such approval, stating special conditions, privileges or limitations relating to such approval. Privileges are defined in CAR 145.
Maintenance	Means the performance of tasks required to ensure the continuing airworthiness of an aircraft, including any one or combination of overhaul, inspection, replacement, defect rectification, and the embodiment of a modification or repair.
Category	Classification of aircraft maintenance activities into airframe maintenance (Cat 'A), Airframe components, equipment and accessories maintenance (Cat 'B'), engines onwing maintenance (Cat. 'C'), engine/components overhaul (Cat 'D'), Maintenance on rotorcraft and their engines (Cat 'E'), aircraft avionic installations (Cat 'W' class 1, 2 & 3), avionic equipment overhaul (Cat. 'X', class 1, 2 & 3), propeller (class X4), and welding processes (class X5).
Deviation Authority	An authorisation that permits an alternate means of compliance with CAR. The deviation authority must meet the procedural requirements of SA-CAR Part 11.
Limitation	A restriction imposed on the corresponding rating based on the AMO capability.
Limited Rating	Rating issued to an AMO that maintains or repairs only a particular type of radio, instrument, or accessory, or part thereof, or performs only specialized maintenance requiring equipment and skills not ordinarily performed under other AMO ratings. Such a rating may be limited to a specific model or constituent part, or to any number of parts made by a particular manufacturer and shall be restricted to those items listed on an approved capability listing as defined in CAR 145.01.6 (h)
Capability List	A document compiled by the AMO and approved by the SACAA, which details a comprehensive list of all the components/equipment that the AMO is capable of maintaining.
	Note: This list is mandatory for category 'B', 'D' and 'X', unless such list of components and repair limitations can be accommodated in the space provided.
Special processes	A set of interrelated or interacting activities which transforms inputs into outputs.  Examples are: NDT, Electro Plating, Plasma Spraying, etc.
Satellite Facility	Means any facility used for the performance of maintenance under part 145 approval but is located at another location than the principal place of business (main base) but is an integral part of the organization
Line Station	For the purpose of this document, means any maintenance facility that is utilized to perform any action that is mandatory, or is required to be performed on an aircraft for the purposes of a turn around, or a route check, or a transit check and is limited to defects rectification repairable by replacement of line replaceable units.
Class	Means classes of aircraft, engines and items of equipment as defined in SA-CATS-145.01.7.6

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PART C

#### **CATEGORY A - RATINGS**

#### LIMITATIONS OF CAT A RATING MAY BE AS FOLLOWS:

- 1. Release to Service (Full): All the listed below
- Certify as per AMP: Can only certify work accomplished as stipulated in the AMP (Limited to A,B or C checks or block checks or MPI's only)
- 3. Certify assembly: Can only certify assembly of an aircraft airframe with any adjustment or minor modification on that airframe
- Certify Installation: Can only replace or install completed subassemblies/equipment/components on the airframe

5. Certify safe for flight: Can only release for a test or ferry flight.

CLASS MANUFACTURER MAKEMODEL LIMITATIONS

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PART D

#### **CATEGORY B - RATINGS**

#### LIMITATIONS OF CAT B RATING MAY BE AS FOLLOWS:

1. Release to Service (Full): All the listed below

 Certify Overhaul: Can only certify overhaul, repair and modifications on airframe components as per the Capability list. This does not include D, X and W rating items.

3. Certify manufacturer. Certify components and parts manufactured in accordance with the appropriate approved specifications as prescribed in Part 21, if the manufacturing of the components and parts is necessary for the holder of the approval to complete a repair, modification or overhaul on a particular airframe component. This does not include D, X and W rating components. (This will be covered by the Capability List as well).

CLASS MANUFACTURER MAKEMODEL LIMITATIONS CAPABILITY LIST

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1.			(Full): All the listed below								
2.	Certify as	per AMP	Can only certify work accomp	lished as stipulated in the AMF	<sup>2</sup> (Limited to A, B or C						
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3.											
	replaceme	nt of extern	al components performed on eng	gines and/or propellers whilst fitte	ed on a particular aeroplan						
4.		installation: Certify the installation of Engines and/or propellers/engine subassemblies/engine									
_	external co			#=== A==A=== #=== ## - # #							
5.			ht: Can only release an engine								
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#### PART F

#### **CATEGORY D - RATINGS**

#### LIMITATIONS OF CAT D RATING MAY BE AS FOLLOWS:

- 1. Release to Service (Full): All the listed below
- Certify Overhaul: Can only certify overhaul, repair and modifications on an Engine and/or engine
  accessories as per the Capability list. This does not include B, X and W rating components. (All Avionic
  and Electrical components).
- 3. Certify manufacturer: certify components and parts manufactured in accordance with the appropriate approved specifications as prescribed in part 21, if the manufacturing of the components and parts is necessary for the engine type on the certificate holder's approval, in order to complete a repair, modification or overhaul on a particular engine, this does not include B, X and W rating components. (This will be covered by the capability list as well).

CLASS	MANUFACTUR	ER	MAKE/MODEL	LIMITATIONS	LIMITATIONS		CAPABILITYLIST	
05	05 CFM Internation		CFM 56-2C	Full Release Service	to		ability List S-0617	
			CFM 56-3	Full Release Service	to		ability List S-0617	
			CFM 56-5A; CFM 56- 5B; CFM 56-5C; CFM 56-7B	Full Release Service	to	Capability List INS-0617		
			LEAP-1B	Full Release Service		IN	ability List S-0617	
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PART G

CATEGORY E – RATINGS

LIMITATIONS OF CAT E RATING MAY BE AS FOLLOWS:

1. Release to Service (Full): All the listed below

2. Certify as per AMP: Can only certify work accomplished as stipulated in the AMP (Limited to A, B or C checks or block checks or MPI's only, this would be specific to the Rotorcraft)

3. Certify assembly: Can only certify the assembly of Rotorcraft with any adjustment or minor modification on that Rotorcraft.

4. Certify installation: Can only replace or install completed subassemblies/equipment/components. This does not include X and W rating components.

5. Certify safe for flight: Can only release for a test or ferry flight.

CLASS MANUFACTURER MAKEMODEL LIMITATIONS

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#### **CATEGORY W - RATINGS**

#### LIMITATIONS OF CAT W RATING MAY BE AS FOLLOWS:

- 1. Release to Service (Full): All the listed below
- 2. Certify as per AMP: Can only certify work accomplished as stipulated in the AMP (Limited to A, B or C checks or block checks or MPI's only, this would be specific to the Aircraft, Engine or Rotorcraft)
- Certify minor maintenance: Can only certify adjustment or minor modification on those specific W rating
  components and W rating work on aircraft. The approval will be limited to specific aircraft and engine
  types, and those specific components that can be covered by the Organisation approval. (This will be
  covered by the Capability List as well)

4. Certify installation: Can only replace or install completed subassemblies.

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	CLASS	MANUFACTURER	MAKE/MODEL	LIMITATIONS

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#### **CATEGORY X - RATINGS**

#### LIMITATIONS OF CAT X RATING MAY BE AS FOLLOWS:

- 1. Release to Service (Full): All the listed below
- 2. Certify Overhaul: Can only certify overhaul, repair and modified Airframe, Rotorcraft and Engine components as per the Capability list. These are X rating components only. (All Avionic and Electrical components).
- 3. Certify manufacturer. Certify components and parts manufactured in accordance with the appropriate approved specifications as prescribed in Part 21, if the manufacturing of the components and parts is necessary for the holder of the approval to complete a repair, modification or overhaul on a particular component/ subassembly/ aircraft/ engine. This does not include B and D rating components. (This will be covered by the Capability List as well).

CLASS

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MAKEMODEL

LIMITATIONS

CAPABILITY LIST

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#### **PART** J

#### **LIMITED RATINGS**

For specialised services the operations specifications must contain the specification used to perform the specialized services the operations specifications flust contain the specification used to perspecialized service. The specification may be—

1. A civil or military specification currently used by industry and approved by the Director; or

2. A specification developed by the applicant and approved by the Director.

PROCESS	DESCRIPTION	REFERENCE STANDARD	LIMITATIONS		
(Cleaning)	Chemical stripping	Approved Operating Procedures and Engine Shop Manual	As per manufacturers instructions		
(HEAT TREATMENT)	Heat treatment	Approved Operating Procedures and Engine Shop Manual	As per manufacturers instructions		
(HEAT TREATMENT)	Thermo Chemical Treatment - Aluminization (APVS, APV, CODEP), C1A Coating	Approved Operating Procedures and Engine Shop Manual	As per manufacturers instructions		
(Machining)	Machining (Laser, Water Jet), Grinding, High speed grinding	Approved Operating Procedures and Engine Shop Manual	As per manufacturers instructions		
Special processes	Bonding	Approved Operating Procedures and Engine Shop Manual	As per manufacturers instructions		
Special processes	Brazing	Approved Operating Procedures and Engine Shop Manual	As per manufacturers instructions		
Special processes	Ultrasonic shotpeening				
(SURFACE TREATMENT)	Surface treatment - Blasting, Sanding, Painting, Varnishing, Abradable surface, Squirt(Syringe)	Approved Operating Procedures and Engine Shop Manual	As per manufacturers instructions		
(Thermal Spray)	Thermal Spray	Approved Operating Procedures and Engine Shop Manual	As per manufacturers instructions		
(Welding)	Electron Beam	All Welding processes IAW ESM and Approved practises	As per Capability List PRO-0108NF and ISO 24394		
(Welding)	Resistance Welding	All Welding processes IAW ESM and Approved practises	As per Capability List PRO-0108NF and ISO 24394		
(Welding)	Swet	All Welding processes IAW ESM and Approved practises	As per Capability List PRO-0108NF and ISO 24394		
(Welding)	TIG and Pulse TIG Welding	All Welding processes IAW ESM and Approved practises	As per Capability List PRO-0108NF and ISC 24394		
(NDT)	Eddy Current Inspection	EN 4179	As per manufacturers instructions		
(NDT)	Liquid Penetrant Inspection	EN 4179	As per manufacturers instructions		
(NDT)	Magnetic Particle Inspection	EN 4179	As per manufacturers instructions		
(NDT)	Ultrasonic Inspection	EN 4179	As per manufacturers instructions		
X-RAY (NDT)	Radiographic Inspection	EN 4179	As per manufacturer's instructions		

I hereby accept the conditions and limitations set forth in this approval as stated and contained in this paragraph.

CA 145-19a	29 NOVEMBER 2018	Page 10 of 13

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PART K	EXEMPTION & DEVIATION AUTHORITY												
The certific	The certificate holder is authorised to perform operations in accordance with the provisions, conditions, and/or limitations set forth in the following deviations listed in the table below.												
DEV	IATION RIPTION	DATE OF INCEPTION		REMARKS/REFERENCE									

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