

# AIRCRAFT MAINTENANCE ORGANISATION APPROVAL CERTIFICATE

#### in terms of the

#### **CIVIL AVIATION REGULATIONS, 2011.**

**AMO NUMBER:** 1211 **EXPIRY DATE:** 31/08/2024

AMO CATEGORY RATING: D X NDT

NAME OF CERTIFICATE HOLDER: MTU Maintenance Hannover GmbH

PHYSICAL ADDRESS OF MTU Maintenance Hannover GmbH CERTIFICATE HOLDER: MTU Maintenance Hannover GmbH

30855 Muenchener Strasse, Langenhagen

**GERMANY** 

COMPANY REGISTRATION: HRB 9638

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

Capt Eric Mataba Acting Executive: ASO

18/08/2023

For: DIRECTOR OF CIVIL AVIATION

NAME IN BLOCK LETTERS

DATE OF ISSUE

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SOUTH AFRICAN

CIVIL AVIATION

**AUTHORITY** 

Section/division Telephone number: Physical address Postal address:

AIRWORTHINESS: AIRCRAFT MAINTENANCE ORGANISATION

Email:

airworthiness@caa.co.za

Form Number: CA 145-19a

011-545-1000 Ikhaya Lokundiza, 16 Treur Close, Waterfall Park, Bekker Street, Midrand, Gauteng

Website: www.caa.co.za Private Bag X73, Halfway House 1685

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

Name of O	rganisati	on	MTU Maintenance Hannover GmbH								
Approval N	lumber	SAC 11	AA.OPSSP	EC.12	Opspecs	Revision s	tatus	1			
PART A	TABLE	OF CC	ONTENTS, L	AND RAT	INGS AUTH	ORITY					
Table of C	ontents		List of effective Pages	Page I	revision	Effective	date	Authorized	Unauthorized or N/A		
Table of Contents, LEP's & Rating authority			Page 1		1	05/07/2	023	Х			
Definitions a abbreviation			Page 2					Х			
Category A-	-Ratings		Page 3						X		
Category B-	-Ratings		Page 4						X		
Category C-Ratings Page 5 X							X				
Category D	-Ratings		Page 6		1	05/07/2	023	Χ			
Category E-Ratings Page 7									X		
Category W	-Ratings		Page 8						X		
Category X-Ratings Page 9 X						X					
Limited Rating Page 10 1 05/07/2023 X											
Exemption and deviation Authority			Page 11						Х		
Satellite Fac station Ration		ine.	Page 12						X		
Notes:											
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b The	Opspecs	may tections	e customise that are no	ed to be	tter suit the	organisatio		al. This may b pecs has to ac	e done by count for these		
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PART B	DEFINITIONS AND ABBREVIATIONS									
abbreviations h Aviation Act, as	Unless otherwise defined in these operation specifications provisions, all words, phrases, definitions, and abbreviations have identical meanings to those used in the South African Civil Aviation Regulations and Civil Aviation Act, as amended. Additionally, the definitions listed below are applicable to operations conducted in accordance with these 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 Hol	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.									
	<u>Note</u> : 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 Facilit	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
- 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)
- 3. Certify assembly: Can only certify assembly of an aircraft airframe with any adjustment or minor modification on that airframe
- 4. 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	MAKE/MODEL	LIMITATIONS

I hereby accept the co	onditions a	nd lii	nita	ations	set t	orth	in th	is ap	prov	al a	s stated a	nd contain	ned i	n this	
paragraph.															
/ July					Mar	cel [	Oobir	ı-Kn	эр		10.07.2023				
SIGNATURE OF AMO REPRESENTATIVE				NAM	E IN	BLC	СК	LET	TER	S		DATE			
JOB TITLE	Regulator	y Com	Compliance Manager						AMO No.   1211			1211			
I hereby approve the	Operations	s Spe	ecifi	catio	ns co	ntai	ned i	n thi	s par	agra	aph.				
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SIGNATURE OF SM: AIRWORTHINESS OR MANAGER				NAM	IE IN	BLO	ск	LET	TER	s	DATE				

PART D CATEGORY B – RATINGS

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

- 1. Release to Service (Full): All the listed below
- 2. **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 <u>Part 21</u>, 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 MAKE/MODEL LIMITATIONS CAPABILITY LIST

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PART E CATEGORY C – RATINGS

#### LIMITATIONS OF CAT C 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 Engine and/or Propellers)
- 3. Certify assembly: Can only certify any adjustment and/or minor modification and/or maintenance and/or replacement of external components performed on engines and/or propellers whilst fitted on a particular aeroplane
- 4. Certify installation: Certify the installation of Engines and/or propellers/engine subassemblies/engine external components

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

CLASS   MANUFACTURER   MAKEMODEL   LI	MITATIONS
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/4 //bf				Marcel Dobin-Knop							10.07.2023				
SIGNATURE OF AMO REPRESENTATIVE				NAI	ME IN	BLO	оск	LET	ΓERS		DATE				
JOB TITLE	Regulatory C	Compli	ance	ce Manager					AMO No.   1211						
I hereby approve the Operations Specifications contained in this paragraph.															
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SIGNATURE OF SM: AIRWORTHINESS OR MANAGER				NAI	ME IN	I BLO	оск	LET	TERS	3	DATE				

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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
- 2. 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).

will be covered	by the capability list a	s well).								
CLASS	MANUFACTURER	MAKEMODEL	ЦМІТАПО	ONS	CAPABILITY LIST					
05	General Electric (GE	CF6 Series	Full Relea		PHF5040D					
		CFM 56 Series	Full Relea Servio		PHF5040D					
	International Aero Engines (IAE)	V2500 SERIES	Full Relea		PHF5040D					
I hereby accept the paragraph.	I hereby accept the conditions and limitations set forth in this approval as stated and contained in this									
HIM		Marcel Dobin-Knop		10.07.2023						
SIGNATU AMO REPRES		AME IN BLOCK LETTER	ks	D	ATE					

Regulatory Compliance Manager AMO No. 1211 JOB TITUE I hereby approve the Operations Specifications contained in this paragraph. 05/07/2023 1 Date approval is effective: **Revision Number:** d d m m У У У У

LOBANG THABANTSO
Acting Senior Manager:
Airworthiness

SIGNATURE OF
SM: AIRWORTHINESS OR
MANAGER

LOBANG THABANTSO
Acting Senior Manager:
Airworthiness

DATE

PART G CATEGORY E – RATINGS

#### LIMITATIONS OF CATE 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.

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	CLASS	MANUFACTURER	MAKE/MODEL	LIMITATIONS

I hereby accept the conditions paragraph.	s and	limit	ation	s set	forth	in th	is ap <sub>l</sub>	oroval	as stated	d and contained i	in this			
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SIGNATURE OF AMO REPRESENTATIV		NAI	ME IN	N BL	оск	LET	ΓERS		DATE	<b>.</b>				
JOB TITLE / Regulatory	Compl	iance	Manag	ger					1,1-11-	AMO No	. 1211			
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SIGNATURE OF SM: AIRWORTHINESS O MANAGER		NAME IN BLOCK LETTERS							DATE					

**PART H** 

#### **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)
- 3. 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.

CLASS	MANUFACTURER	MAKE/MODEL	LIMITATIONS

I hereby accept the conditions	s and	limit	ation	s set	forth	in th	is ap	prova	ıl as	stated and	contained	in thi	s
paragraph.													
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- Shab ~		LOBANG THABANTSO Acting Senior Manager: Airworthiness						05/07/2023					
SIGNATURE OF SM: AIRWORTHINESS O MANAGER		NAME IN BLOCK LETTERS						DATE					

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#### PART I

#### **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 <a href="Part 21">Part 21</a>, 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 MANUFACTURER MAKE/MODEL LIMITATIONS CAPABILITY LIST

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/ Lily	Marcel Dobin-Knop							10.07.2023					
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JOB TITLE / Regula	ory Cor	nplian	се Ма	nager							A	MO No.	1211
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### **PART**

**MANAGER** 

#### LIMITED RATINGS

For specialised services the operations specifications must contain the specification used to perform the specialized 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
(HEAT TREATMENT)	Inert Gas	AMS 2750	As Part of the C Rating Repair Process
(HEAT TREATMENT)	Vacuum	AMS 2750	As Part of the C Rating Repair Process
(Plating)	Chrome	AMS 2406	As Part of the C Rating Repair Process
(Plating )	Nickel	AMS 2403 AMS 2424	As Part of the C Rating Repair Process
(Plating)	Platinum	As per the OEM Instruction	As Part of the C Rating Repair Process
(Plating )	Silver	AMS 2410 AMS 2411	As Part of the C Rating Repair Process
(X5(Welding))	Welding	As per OEM Instruction	To Certify and/or Release to Service
(NDT)	Eddy Current Inspection	As per OEM Instruction	To Certify and/or Release to Service
(NDT)	Flourescent Penetrant Inspection	ASTM-E1417	To Certify and/or Release to Service
(NDT)	Magnetic Particle Inspection	ASTM-E1444	To Certify and/or Release to Service
(NDT)	Radiography	ASTM-E1742	To Certify and/or Release to Service
(NDT)	Ultrasonic Inspection	ASTM-E114	To Certify and/or Release to Service
I hereby accept the cond paragraph.	itions and limitations set forth ir	this approval as stated and o	

10.07.2023 Marcel Dobin-Knop SIGNATURE OF DATE NAME IN BLOCK LETTERS AMO REPRESENTATIVE Regulatory Compliance Manager AMO No. 1211 JOB TITLE / I hereby approve the Operations Specifications contained in this paragraph. 05/07/2023 Date approval is **Revision Number:** 1 effective: d d m m У У У LOBANG THABANTSO Acting Senior Manager: Airworthiness 05/07/2023 SIGNATURE OF **DATE** SM: AIRWORTHINESS OR NAME IN BLOCK LETTERS

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PART K		EXEMPTION & DEVIATION AUTHORITY										
		uthorised to perform operation following deviations listed in	ns in accordance with the pro the table below.	ovisions, conditions, and/or								
1	IATION RIPTION	DATE OF INCEPTION	DATE OF TERMINATION	REMARKS/REFERENCE								

I hereby accept the conditions and lin	nitati	ion	s set	forth	ı in t	his a	appr	oval	as s	stated a	and containe	d in	this
paragraph.													
Marcel Dobin-Kno										10.07.2023			
SIGNATURE OF NAME IN BLOCK LETTERS DATE													
JOB TITLE Regulatory Compliance Manager AMO No. 1211										1211			
I hereby approve the Operations Spe	I hereby approve the Operations Specifications contained in this paragraph.											10.	
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SIGNATURE OF SM: AIRWORTHINESS OR MANAGER	NAME IN BLOCK LETTERS DATE												

PART L		SATELLITE FACI	LITIES & LINE ST	ATION RATINGS	
PHYSICAL LOCATION (Address)	CATEGORY/CLAS S	MANUFACTURER	MAKE/MODEL	LIMITATIONS	EXPIRY DATE

I hereby accept the con	ditior	ns an	d lim	itatic	ns s	et for	th in	this	approval a	s stated a	nd con	tained in this		
paragraph.	11													
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SIGNATURE AMO REPRESEI		IVE		N	AME	IN E	BLO	CK L	ETTERS		DATE			
JOB TITLE/	Regul	atory (	Comp	liance	Mana	ger				AMO	No.	1211		
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Shab	LOBANG THABANTSO Acting Senior Manager: 05/07 Airworthiness						05/07/2023							
SIGNATURE SM: AIRWORTHIN MANAGER	NAME IN BLOCK LETTERS					ETTERS			DATE					