

UNITED STATES OF AMERICA  
DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

# Air Agency Certificate

*Number* ZUUY862X

*This certificate is issued to*

MTU MAINTENANCE ZHUHAI CO., LTD.

*whose business address is*

NO. 1 TIANKE ROAD  
FREE TRADE ZONE, ZHUHAI  
GUANGDONG, 519030, CHINA

*upon finding that its organization complies in all respects with the requirements of the Federal Aviation Regulations relating to the establishment of an Air Agency, and is empowered to operate an approved* REPAIR STATION

*with the following ratings:*

LIMITED - POWERPLANT  
LIMITED - AIRFRAME  
LIMITED - ACCESSORIES  
LIMITED - NONDESTRUCTIVE INSPECTION, TESTING AND PROCESSING

*This certificate, unless canceled, suspended, or revoked, shall continue in effect* UNTIL SEPTEMBER 30, 2025

*Date issued:*

ORIGINAL:  
NOVEMBER 7, 2003

*By direction of the Administrator*

ALTON K  
CLARK

ALTON K. CLARK, MANAGER  
LOS ANGELES-IFO (AFS-54 LAX)

Digitally signed by ALTON K  
CLARK  
Date: 2023.09.21 16:22:57  
-0700

This Certificate is not Transferable, AND ANY MAJOR CHANGE IN THE BASIC FACILITIES, OR IN THE LOCATION THEREOF, SHALL BE IMMEDIATELY REPORTED TO THE APPROPRIATE REGIONAL OFFICE OF THE FEDERAL AVIATION ADMINISTRATION

~~Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both~~

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**A001 . Issuance and Applicability**

**HQ Control: 05/10/2024**

**HQ Revision: 05g**

a. These operations specifications are issued to MTU MAINTENANCE ZHUHAI CO. LTD, a Repair Station located outside the United States, pursuant to 14 CFR Part 145, § 145.53(a). The repair station certificate holder shall conduct operations in accordance with 14 CFR Part 145 and these operations specifications.

The certificate holder's address:

Fixed Location:  
No. 1 Tianke Road  
Free Trade Zone  
Zhuhai, Guangdong  
519030  
China

Mailing Address:  
No. 1 Tianke Road  
Free Trade Zone  
Zhuhai, Guangdong  
519030  
China

b. The holder of these operations specifications is the holder of certificate number ZUUY862X and shall hereafter be referred to as the "certificate holder".

c. These operations specifications are issued as part of this repair station certificate and are in effect as of the date approval is effective. This certificate and these operations specifications shall remain in effect until the expiration date on the issued certificate for a repair station that is located outside the United States unless previously surrendered, suspended, or revoked.

d. The repair station specified on these operation specifications does not perform maintenance and/or an alteration of aircraft and/or aeronautical products under a Bilateral Aviation Safety Agreement (BASA).

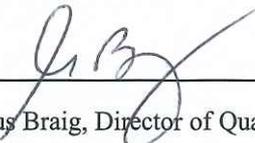
e. The certificate holder is authorized to use only the business name which appears on the certificate to conduct the operations described in subparagraph a.

1. Issued by the Federal Aviation Administration.
2. These Operations Specifications are approved by direction of the Administrator.



Digitally signed by Glenn A Gathright, Principal Maintenance Inspector (FS58)  
[1] SUPPORT INFO: Nonmandatory chg  
[2] EFFECTIVE DATE: 9/6/2024, [3] AMENDMENT #: 12  
DATE: 2024.09.06 08:49:53 -05:00

3. I hereby accept and receive the Operations Specifications in this paragraph.

  
\_\_\_\_\_  
Markus Braig, Director of Quality/ Safety Management

Sept 9<sup>th</sup> 2024

Date

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**A002 . Definitions and Abbreviations**

**HQ Control: 12/14/2017**

**HQ Revision: 05d**

Unless otherwise defined in these operations specifications, all words, phrases, definitions, and abbreviations have identical meanings to those used in 14 CFR and 49 U.S.C., as cited in Public Law 103-272, as amended. Additionally, the definitions listed below are applicable to operations conducted in accordance with these operations specifications.

<b>BASA</b>	The Bilateral Aviation Safety Agreement (BASA) is an executive agreement concluded between the United States and a foreign country for the purpose of promoting aviation safety; also known as an Agreement for the Promotion of Aviation Safety.
<b>Certificate Holder</b>	In these operations specifications, the term "certificate holder" means the holder of the repair station certificate described in these operations specifications in Part A paragraph A001 and any of its officers, employees, or agents used in the conduct of operations under this certificate.
<b>CAAS</b>	Civil Aviation Authority of Singapore
<b>CFR</b>	Code of Federal Regulations
<b>Class Rating</b>	As used with respect to the certification, ratings, privileges of airframes, powerplants, propellers, radios, instruments, and accessories within a category having similar operating characteristics.
<b>EASA</b>	European Aviation Safety Agency
<b>EASA Accountable Manager</b>	The manager who has corporate authority for ensuring that all maintenance required by the customer can be financed and carried out to the standard required by the EASA full-member Authority.
<b>EU</b>	European Union
<b>Exemption</b>	An authorization that permits an alternate means of compliance with a specific CFR. The exemption must meet the procedural requirements of 14 CFR Part 11.
<b>FOCA</b>	Federal Office of Civil Aviation
<b>FAA Accountable Manager</b>	A person designated by the certificated repair station who is responsible for and has authority over all repair station operations that are conducted under 14 CFR Part 145, including ensuring that the repair station's personnel follow the regulations and serving as the primary contact with the FAA.

<b>Geographic Authorization</b>	Authorization provided to a repair station located outside the United States to perform maintenance support under contract for a U.S. air carrier (or an operator of U.S.- registered aircraft under 14 CFR Part 129) at a location other than the repair station's main facility. A geographic authorization is issued by the FAA to respond to a U.S. air carrier's or Part 129 foreign operator's need for maintenance at a station where the frequency and scope of that maintenance does not warrant permanently staffing and equipping the station for its accomplishment.
<b>Limited Rating</b>	A rating issued to repair stations for the performance of maintenance on particular makes and models of airframes, powerplants, propellers, radios, instruments, accessories, and/or parts.
<b>Limited Ratings - Specialized Services</b>	Rating issued for a special maintenance function when the function is performed in accordance with a specification approved by the Administrator.
<b>Line Maintenance</b>	Any unscheduled maintenance resulting from unforeseen events, or scheduled checks where certain servicing and/or inspections do not require specialized training, equipment, or facilities.
<b>MAG</b>	The Maintenance Annex Guidance (MAG) defines the process that the FAA and EASA undertake in the inspection, findings of compliance certification, and monitoring of repair stations, as well as their joint cooperation in quality assurance and standardization activities in support of the EASA Agreement, Annex 2, Maintenance. The term Maintenance Agreement Guidance (MAG) defines the processes and activities applicable to a specific country under an MIP, and is not associated with the EASA Agreement.
<b>Maintenance</b>	The inspection, overhaul, repair, preservation, and replacement of parts, but excludes preventive maintenance.
<b>U.S./EU Aviation Safety Agreement, Annex 2, Maintenance</b>	Annex 2 covers the reciprocal acceptance of findings of compliance, approvals, documentation and technical assistance regarding approvals and the monitoring of repair stations/maintenance organizations.
<b>MIP</b>	Maintenance Implementation Procedures (MIP) are procedures for implementing the provisions of a BASA that apply to maintenance performed under 14 CFR Part 145, Section 145.53(b).
<b>MOE</b>	A maintenance organization exposition (MOE) pertains to procedural manuals used by maintenance organizations certificated by a foreign country. The MOE along with the FAA Supplement, sets forth the structure and procedures of the repair station to meet the requirements of 14 CFR Part 145 under a MIP.

<b>Preventive Maintenance</b>	As defined in 14 CFR part 1 and part 43 appendix A, subparagraph (c).
<b>QCM</b>	Quality Control Manual
<b>Repair Station located in the United States</b>	A FAA certificated repair station located in the United States.
<b>Repair Station located outside the United States</b>	A FAA certificated repair station located outside of the United States.
<b>RSM</b>	Repair Station Manual

1. Issued by the Federal Aviation Administration.
2. These Operations Specifications are approved by direction of the Administrator.



Digitally signed by Adam N Pike, Principal Maintenance Inspector (FS58)  
[1] SUPPORT INFO: A002 Template change. Non-mandatory revision to OpSpec A002 (Part 145) comprising the following minor changes - 1) Inserted the Definition 'CAAS' for the Term: Civil Aviation Authority of Singapore; and, 2) updated the following Definitions: 'Class rating'; 'Geographic Authorization'; 'MAG'; and, 'Repair Station located in the United States.' Revised by AFS-340.  
[2] EFFECTIVE DATE: 10/12/2022, [3] AMENDMENT #: 5  
DATE: 2022.10.12 09:11:28 -05:00

3. I hereby accept and receive the Operations Specifications in this paragraph.

Handwritten signature of Hans-Dieter Reimann in black ink.

2022-10-13

Hans-Dieter Reimann, Director Quality Management      Date

**A003 . Ratings and Limitations**

**HQ Control: 04/03/2017**

**HQ Revision: 01a**

The certificate holder is authorized the following Ratings and/or Limitations:

**Class Ratings**

None Authorized

**Limited Ratings**

<b><u>Rating</u></b>	<b><u>Manufacturer</u></b>	<b><u>Make/Model</u></b>	<b><u>Limitations</u></b>
Airframe	Airbus	A319, 320, 321 Series	Limited to removal, installation, inspection and repair of QEC/EBU components. Limited to borescope inspections and boreblending repairs. This work must be accomplished in accordance with the article's current manufacturer's technical instructions or air carrier's maintenance manual, as appropriate.
	Boeing	B-737 Series	Limited to removal, installation, inspection and repair of QEC/EBU components. Limited to borescope inspections and boreblending repairs. This work must be accomplished in accordance with the article's current manufacturer's technical instructions or air carrier's maintenance manual, as appropriate.
PowerPlant	International Aero Engines	V2500 Series	Limited to Inspect, Test, Repair, Modification, Overhaul. This work must be accomplished in accordance with the article's current manufacturer's technical instructions or air carrier's maintenance manual, as appropriate.
	CFM International	CFM56-3, -5, -7	Limited to Inspect, Test, Repair, Modification, Overhaul. This work must be accomplished in accordance with the article's current manufacturer's technical instructions or air carrier's maintenance

<u>Rating</u>	<u>Manufacturer</u>	<u>Make/Model</u>	<u>Limitations</u>
			manual, as appropriate.
	CFM International	LEAP 1A, LEAP 1B	Limited to Inspect, Test, Repair, Modification, Overhaul. This work must be accomplished in accordance with the article's current manufacturer's technical instructions or air carrier's maintenance manual, as appropriate.
	Pratt & Whitney	PW1100G-JM Series	Limited to Inspect, Repair, Modification, Overhaul, and Test. This work must be accomplished in accordance with the article's current manufacturer's technical instructions or air carrier's maintenance manual, as appropriate.
Accessories	From the accepted MTU-SZ Component Capability List, as amended.	From the accepted MTU-SZ Component Capability List, as amended.	From the accepted MTU-SZ Component Capability list, as revised.
Nondestructive Inspection, Testing, and Processing	Eddy Current Inspection		In accordance with AMS E2658 and current manufacturer's maintenance manuals and NDT manuals as revised, or other FAA acceptable or approved data. All Nondestructive Testing personnel qualifications and certification shall be in accordance with NAS 410.
	Liquid Penetrant Inspection		In accordance with ASTM E1417 and current manufacturer's maintenance manuals and NDT manuals as revised or other FAA acceptable or approved data. All Nondestructive Testing personnel qualifications and certification shall be in accordance with NAS 410.
	Ultrasonic Inspection		In accordance with ASTM E317 and current manufacturer's maintenance manuals and NDT manuals as revised, or other FAA acceptable or approved data. All Nondestructive Testing personnel qualifications and certification shall be in accordance with NAS 410.
	Magnetic Particle Inspection		In accordance with ASTM E1444 and current manufacturer's maintenance manuals and NDT manuals as revised, or other FAA acceptable or approved data. All Nondestructive Testing personnel

Operations Specifications

<u>Rating</u>	<u>Manufacturer</u>	<u>Make/Model</u>	<u>Limitations</u>
	Radiographic		qualifications and certification shall be in accordance with NAS 410.  In accordance with current manufacturer's maintenance manuals and NDT manuals as revised, or other FAA acceptable or approved data. All Nondestructive Testing personnel qualifications and certification shall be in accordance with NAS 410.

Limited Ratings - Specialized Services

<u>Rating</u>	<u>Specifications</u>	<u>Limitations</u>
None Authorized.		

1. The Certificate Holder applies for the Operations in this paragraph.
2. These Operations Specifications are approved by direction of the Administrator.



Digitally signed by Glenn A Gathright, Principal Maintenance Inspector (FS58)  
[1] SUPPORT INFO: FAA Form 8310-3 submitted to chg Op Specs  
[2] EFFECTIVE DATE: 9/6/2024, [3] AMENDMENT #: 13  
DATE: 2024.09.06 08:52:42 -05:00

3. I hereby accept and receive the Operations Specifications in this paragraph.

  
\_\_\_\_\_  
Markus Braig, Director of Quality/ Safety Management      Date      Sept. 9<sup>th</sup> 2024

**A004 . Summary of Special Authorizations and Limitations**

**HQ Control: 09/23/1998**

**HQ Revision: 010**

**a. The certificate holder, in accordance with the reference paragraphs, is authorized to:**

	Reference Paragraphs
Use an acceptable electronic recordkeeping system, electronic/digital signature, and/or electronic media.	A025
Perform work, including continuous operations, at additional locations other than at its primary fixed location.	A101
Perform work, excluding continuous operations, at additional locations other than at its primary Fixed Location.	D100

**b. The certificate holder is *not authorized and shall not*:**

	Reference Paragraphs
Use Exemptions.	A005
Perform maintenance with ratings for repair stations located outside the United States under a Bilateral Aviation Safety Agreement with Maintenance Provisions.	A060
Perform safety-sensitive functions requiring a drug and alcohol testing program under 14 CFR part 120	A449
Perform maintenance in accordance with foreign repair station geographic authorizations.	B050
Perform line maintenance for cert. holders conducting operations under Parts 121 and 135 and for foreign carriers/persons operating non-U.S.-registered aircraft in common carriage under Part 129, apart from D100 which authorizes that work away from station.	D107

1. Issued by the Federal Aviation Administration.
2. These Operations Specifications are approved by direction of the Administrator.



Digitally signed by Thomas C Borland, Principal Maintenance Inspector (FS58)  
[1] EFFECTIVE DATE: 6/5/2023, [2] AMENDMENT #: 5  
DATE: 2023.06.05 12:06:11 -05:00

3. I hereby accept and receive the Operations Specifications in this paragraph.

A handwritten signature in black ink, appearing to read "B. L. Mann".

06 JUN 2023

**A007 . Designated Persons**

HQ Control: 09/08/2021

HQ Revision: 03a

a. The personnel listed in the following table are designated to officially apply for and receive operations specifications for the certificate holder indicated below.

**Table 1 – Designated Persons to Apply for and Receive Authorizations**

Title	Name	Parts Authorized	Email Address
FAA Accountable Manager, 145	Wagner, Gert	A,D	Gert.Wagner@mtuzhuhai.com
Director of Quality/ Safety Management	Braig, Markus	A,D	Markus.Braig@mtuzhuhai.com

b. The following personnel listed in Table 2 are designated by the certificate holder to receive Information for Operators (InFO) messages for the certificate holder as indicated below. A receipt for the information by an operator or person is not required.

**Table 2 – Designated to Receive InFO Messages**

Name	Email Address	Telephone No.	Type of Information to Receive
Wagner, Gert	Gert.Wagner@mtuzhuhai.com	+86-756-8687806-8383	ALL
Braig, Markus	Markus.Braig@mtuzhuhai.com	+86-756-8687806-8517	ALL

1. Issued by the Federal Aviation Administration.
2. These Operations Specifications are approved by direction of the Administrator.



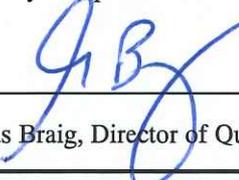
Digitally signed by Shane Cavette, Principal Avionics Inspector (FS58)

[1] SUPPORT INFO: Personnel Change

[2] EFFECTIVE DATE: 2/5/2024, [3] AMENDMENT #: 11

DATE: 2024.02.05 13:42:23 -06:00

3. I hereby accept and receive the Operations Specifications in this paragraph.

  
\_\_\_\_\_  
Markus Braig, Director of Quality/ Safety Management      Date      2024-02-06

**A025 . Electronic/Digital Recordkeeping System,  
Electronic/Digital Signature, and Electronic Media**

**HQ Control: 04/03/2017**

**HQ Revision: 00b**

a. The certificate holder is authorized to use an acceptable electronic/digital recordkeeping system, described and/or referenced in this paragraph (if none, enter N/A.)

Details please refer to FAA RSQCM Chapter 10 Record Keeping System

b. The certificate holder is authorized the use of the following electronic/digital signature procedures (if none, enter "N/A").

N/A

c. The certificate holder is authorized to use electronic media for the repair station and quality control manuals, if acceptable (if none, enter "N/A").

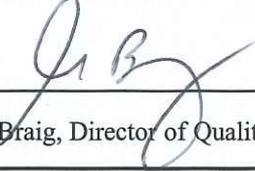
Details please refer to FAA RSQCM Chapter 1

1. The Certificate Holder applies for the Operations in this paragraph.
2. These Operations Specifications are approved by direction of the Administrator.



Digitally signed by Glenn A Gathright, Principal Maintenance Inspector (FS58)  
[1] SUPPORT INFO: Operator requested amendment via email to chg Op Specs  
[2] EFFECTIVE DATE: 9/6/2024, [3] AMENDMENT #: 5  
DATE: 2024.09.06 08:56:30 -05:00

3. I hereby accept and receive the Operations Specifications in this paragraph.

  
\_\_\_\_\_  
Markus Braig, Director of Quality/ Safety Management

Sept 9th 2024  
Date

**A101 . Additional Fixed Locations**

**HQ Control: 12/11/2020**

**HQ Revision: 01b**

a. The certificate holder is authorized to perform work at the following additional fixed location(s) listed in Table 1 below, provided it has the facilities, materials, equipment, and technical personnel to perform the work authorized.

**Table 1**

Additional Location Address(es)				
Address	City	State	Country	Postal Code
No.16, Zixiang Road, Sanzao Town, Jinwan District	Zhuhai,	Guangzhou	CHINA	519000

b. This authorizes the certificate holder to use multiple locations to perform its operations under a single certificate.

c. With the exception of the provisions of subparagraph g below, this authorization does not constitute work performed at additional location(s) outside the domiciled country.

d. The certificate holder may perform continuous operations at the facilities listed in Table 1 above.

e. All the authorizations and exemptions authorized for the certificate holder apply at these locations, as applicable.

f. Repair stations located outside the United States covered by the U.S./European Union (EU) Safety Agreement must be under the surveillance of an aviation authority (AA), hold a European Aviation Safety Agency (EASA) line station approval, and must be located within the EU Member States.

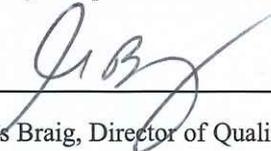
g. Repair stations with their principal place of business located within the United Kingdom of Great Britain and Northern Ireland (UK) operating under the Maintenance Implementation Procedures (MIP) are authorized additional fixed locations outside of the UK. The repair station must hold a UK Civil Aviation Authority (CAA) approval, be under direct surveillance by the UK CAA for that location, and must not be located within the United States.

1. The Certificate Holder applies for the Operations in this paragraph.
2. These Operations Specifications are approved by direction of the Administrator.



Digitally signed by Glenn A Gathright, Principal Maintenance Inspector (FS58)  
[1] SUPPORT INFO: Operator submitted FAA Form 8310-3 to chg Op Specs  
[2] EFFECTIVE DATE: 9/6/2024, [3] AMENDMENT #: 2  
DATE: 2024.09.06 08:58:28 -05:00

3. I hereby accept and receive the Operations Specifications in this paragraph.

  
\_\_\_\_\_  
Markus Braig, Director of Quality/ Safety Management

Sept 9<sup>th</sup> 2024

Date

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**D100 . Work to be Performed at a Place Other Than the Repair Station's Fixed Location(s)** HQ Control: 05/20/2024  
HQ Revision: 05a

a. The certificate holder is authorized to perform work on a recurring basis at a location other than its fixed location(s) listed in Operations Specification A001, Issuance and Applicability, and, if issued, A101, Additional Fixed Locations, provided it has the facilities, material, equipment, and technical personnel to perform the work authorized in Table 1 below:

**Table 1 - Work Authorized**

<b>Work Authorized</b>	<b>Repair Station Manual References</b>	<b>Quality Control Manual References</b>
Maintenance and Preventive Maintenance In Accordance with Operations Specifications Paragraph A003.	Chapter 7 Work Performed at Another Location	Chapter 7 Work Performed at Another Location

b. Work Authorized. The work authorized in Table 1 above could be the repair station's entire rating(s) or portions thereof.

c. Repair Station Manual (RSM). Table 1 must list the section(s) in the RSM and, if applicable, the Quality Control Manual (QCM) that contain the procedures that govern how the repair station will perform work on a recurring basis at a place other than the repair station's fixed location(s).

d. Continuous Operations. Issuance of this operations specification does not authorize continuous operations at a location away from the repair station's fixed location(s) listed in operations specification A001 and, if issued, A101.

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U.S. Department  
of Transportation  
Federal Aviation  
Administration

Operations Specifications

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1. Issued by the Federal Aviation Administration.
2. These Operations Specifications are approved by direction of the Administrator.



Digitally signed by Glenn A Gathright, Principal Maintenance Inspector (FS58)  
[1] SUPPORT INFO: Nonmandatory chg  
[2] EFFECTIVE DATE: 9/6/2024, [3] AMENDMENT #: 5  
DATE: 2024.09.06 08:59:36 -05:00

3. I hereby accept and receive the Operations Specifications in this paragraph.

  
\_\_\_\_\_  
Markus Braig, Director of Quality/ Safety Management      Date

Sept 9<sup>th</sup> 2024