



Ersatz für Ausgabe 2022-03

Supersedes issue 2022-03

**Scope of Work / Capability List  
des Instandhaltungsbetriebs nach  
EASA Teil 145, 14 CFR part 145,  
CAR 573 und CAA UK Part 145**

**Scope of Work / Capability List of the  
Maintenance Organization i.a.w.  
EASA Part 145, 14 CFR part 145,  
CAR 573 and CAA UK Part 145**

MTU Geschäftsgeheimnis

MTU Proprietary Information

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**1 Anwendungsbereich**

Diese Norm gilt für alle Mitarbeiter der MTU Aero Engines AG, die Arbeiten im Rahmen der Instandhaltungsgenehmigungen DE.145.0019 (EASA Teil 145), CK5Y782M (14 CFR part 145), 813-22 (CAR 573) und UK.145.01629 (CAA UK Part 145) ausführen.

Sie gilt für alle im Abschnitt 5 genannten Betriebsstätten.

Genehmigt für das Luftfahrt-Bundesamt (LBA) und im Namen der FAA und TCCA

**1 Scope**

This standard shall be observed by all MTU Aero Engines AG employees who perform work under the maintenance organization approvals DE.145.0019 (EASA Part 145), CK5Y782M (14 CFR part 145), 813-22 (CAR 573) and UK.145.01629 (CAA UK Part 145).

It applies to all facilities listed in clause 5.

Approved by Luftfahrt-Bundesamt (LBA) and on behalf of the FAA and TCCA

20. Jan. 2023

  
Gerhard Barth

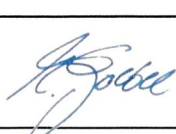
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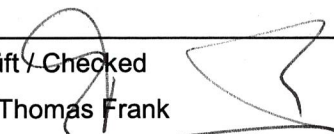
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MTU Aero Engines AG

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MTU GeschäftsgeheimnisMTU Proprietary Information**2 Aufgabenstellung**

MTU Aero Engines AG darf Freigabebescheinigungen nur für Tätigkeiten und Baumuster ausstellen, für die sie von der zuständigen Luftfahrtbehörde eine Genehmigung besitzt. Der Umfang dieser genehmigten Instandhaltung ist in den Anhängen der Genehmigungsurkunden der MTU, sowie detailliert in dieser Vorschrift aufgeführt.

Diese Arbeitsanweisung enthält die gemeinsame Liste mit dem Scope of work und der Capability List für die im Abschnitt 1 genannten Genehmigungen der MTU.

Für die in der Spalte „FAA Rating“ mit „--“, gekennzeichneten Bauteile/Verfahren besteht keine Genehmigung der FAA zur Instandhaltung/Prüfung; eine EASA Form 1 mit „dual release“ darf daher nicht ausgestellt werden.

**3 Abkürzungen**

L-PP	Limited Powerplant
L-ACC	Limited Accessory
L-SS	Limited Specialized Service
B1	vollständige Turbinenflugmotoren
C7	Bauteile ausgenommen vollständige Flugmotoren und Hilfskraftanlagen
D1	zerstörungsfreie Prüfungen
FAA	Federal Aviation Administration
TCCA	Transport Canada Civil Aviation
TCH	Type Certificate Holder
TCDS	Type Certificate Data Sheet
IETP	Interactive Electronic Technical Publication

**4 Zuständigkeiten**

Die Capability List wird von der Organisationseinheit „Corporate Quality“ (TQ) gepflegt. Das Verfahren zur Erstellung und Änderung sind in der Norm MTT163-1 beschrieben.

**2 Objective**

MTU Aero Engines AG may issue release certificates for aeronautical equipment only to the extent the maintenance work and engine types involved are covered by the authorization/approval of the cognizant aviation authority. The maintenance work covered by the approvals is listed in the annexes to MTU' approval certificates and detailed in this standard.

This work instruction covers the joint list that details the scope of work and capability list covered by the approvals listed in clause 1 held by MTU.

Two dashes („--“) in the FAA Rating column signify that MTU does not hold FAA authorization to carry out the process listed or perform maintenance work/inspections on the components involved, i. e. that MTU Aero Engines is not authorized to issue a EASA form 1 “Dual Release”.

**3 Abbreviations**

L-PP	Limited Powerplant
L-ACC	Limited Accessory
L-SS	Limited Specialized Service
B1	Complete Turbine Engine
C7	Components, except Complete Engines and Auxiliary Power Units
D1	Non-destructive Testing
FAA	Federal Aviation Administration
TCCA	Transport Canada Civil Aviation
TCH	Type Certificate Holder
TCDS	Type Certificate Data Sheet
IETP	Interactive Electronic Technical Publication

**4 Responsibilities**

The capability list is maintained and updated by the „Corporate Quality“ (TQ) department. The procedure for the preparation and updating of the list are described in the standard MTT163-1.

MTU GeschäftsgeheimnisMTU Proprietary Information**5 Betriebstätten**

- a) MTU Aero Engines AG  
Dachauer Str. 665  
80995 München  
Deutschland

(Bestandteil der Genehmigung nach EASA Teil 145, 14 CFR part 145 und CAR 573)

- b) MTU Aero Engines Polska Sp. z. o. o.  
Tajęcina 108  
36-002 Jasionka  
Polen

(Bestandteil der Genehmigung nach EASA Teil 145, 14 CFR part 145 und CAR 573)

- c) MTU Aero Engines AG  
Standort Ludwigsfelde  
Dr. Ernst-Zimmermann-Straße 2  
14974 Ludwigsfelde  
Deutschland

(nur Bestandteil der Genehmigung nach EASA Teil 145)

Am Standort c) erfolgen der Triebwerk-Prüflauf und die Endmontage des Baumusters TP400-D6. Das beinhaltet alle in der Prüflaufvorschrift der EPI definierten Arbeiten (inkl. z. B. Boroskopie, Filterwechsel).

Zusätzlich erfolgen bei Bedarf Standard-Montagearbeiten wie z. B.

- Demontage und Montage von Geräten
- Verblendung von kleinen Kratzern, Ausbessern von Lackschichten
- Standard-Montagetätigkeiten (z.B. Austausch von Kabelisolierungen und Inserts)

Details der Instandhaltungsaktivitäten am Standort b) sind in Tabelle 2 dieser Norm und MTT197-DP-List-Jasionka enthalten.

Alle übrigen Arbeiten erfolgen am Standort a).

**6 Hinweis zu TP400-D6**

Triebwerke der Bundeswehr werden unter dem B1-Rating im Rahmen der DEMAR 145 Genehmigung der MTU instandgehalten.

Die Instandhaltung von Triebwerken anderer Nutzerstaaten und alle Arbeiten im Rahmen des C7-Ratings erfolgen unter der EASA Teil 145 Genehmigung.

**5 Facilities**

- a) MTU Aero Engines AG  
Dachauer Str. 665  
80995 München  
Germany

(part of the approval in accordance with EASA Part 145, 14 CFR part 145 and CAR 573)

- b) MTU Aero Engines Polska Sp. z. o. o.  
Tajęcina 108  
36-002 Jasionka  
Poland

(part of the approval in accordance with EASA Part 145, 14 CFR part 145 and CAR 573)

- c) MTU Aero Engines AG  
Ludwigsfelde location  
Dr. Ernst-Zimmermann-Straße 2  
14974 Ludwigsfelde  
Germany

(part of the approval in accordance with EASA Part 145 only)

Engine pass-off testing and final assembly of the TP400-D6 engine type occur at location c), including all work specified in EPI's test specification (such as borescope inspection, exchange of filters, etc.).

In addition, standard assembly work is carried out as required, e.g.

- disassembly and assembly of accessories
- blending to remove small scratches, touching-up of paint coats
- standard assembly tasks (e.g. cable insulation and insert replacements)

Details of the maintenance activities at the location b) are given in table 2 of this standard and MTT197-DP-List-Jasionka.

All other work is performed at location a).

**6 Note for TP400-D6**

Engines of the German Air Force will be maintained under the B1 rating covered by the DEMAR 145 approval of MTU.

Maintenance of engines from other nations and all activities under the C7 rating are done within the EASA Part 145 approval.

MTU GeschäftsgeheimnisMTU Proprietary Information**Erläuternde Angaben**

Änderungen sind mit Randbalken gekennzeichnet.

Tabelle 1:

- Engine Type:
  - entfernt: PW1100G series (B1/ L-PP - Rating)
  - Neu: PW1900G series (C7/L-ACC-Rating)

**Weitere Unterlagen**

EASA Teil-145: 145.A.20, 145.A.75  
14 CFR part 145: 145.59, 145.61, 145.201, 145.215

MTT163-1 Erstellung und Pflege von "Scope of Work" und "Capability List"; ziviler Instandhaltungsbetrieb nach EASA Teil-145 bzw. 14 CFR Part 145

MTT197-DP-List Annex to Capability List of the Maintenance Organization (MTT 197) DE.145.0019/CK5Y782M/813-22 (facility Munich)

MTT197-DP-List-TP400 Annex to Capability List of the Maintenance Organization (MTT 197) DE.145.0019 (facilities Munich and Ludwigsfelde)

MTT197-DP-List-GP7200 Annex to Capability List of the Maintenance Organization (MTT 197) DE.145.0019/CK5Y782M (facility Munich)

MTT197-DP-List-Jasionka Annex to Capability List of the Maintenance Organization (MTT 197) DE.145.0019/CK5Y782M/813-22 (facility Jasionka)

**Explanatory notes**

Changes are marked with a line in the margin.

Table 1:

- Engine Type:
  - removed: PW1100G series (B1/ L-PP - Rating)
  - New: PW1900G series (C7/L-ACC-Rating)

**Associated documents**

EASA Part 145: 145.A.20, 145.A.75  
14 CFR part 145: 145.59, 145.61, 145.201, 145.215

MTT163-1 Development and maintenance of the Scope of Work / Capability List; Commercial maintenance organization/ repair shop in accordance with EASA Part 145 and 14 CFR Part 145

MTT197-DP-List Annex to Capability List of the Maintenance Organization (MTT 197) DE.145.0019/CK5Y782M/813-22 (facility Munich)


MTT197-DP-List-TP400 Annex to Capability List of the Maintenance Organization (MTT 197) DE.145.0019 (facilities Munich and Ludwigsfelde)

MTT197-DP-List-GP7200 Annex to Capability List of the Maintenance Organization (MTT 197) DE.145.0019/CK5Y782M (facility Munich)


MTT197-DP-List-Jasionka Annex to Capability List of the Maintenance Organization (MTT 197) DE.145.0019/CK5Y782M/813-22 (facility Jasionka)

**Tabelle 1: Scope of work / Capability List Standorte München und Ludwigsfelde**

**Table 1: Scope of work / Capability List locations Munich and Ludwigsfelde**

		<b>MTU Aero Engines AG</b> LBA Approved Maintenance Organization DE.145.0019 FAA Certificated Foreign Repair Station CK5Y782M TCCA Approved Maintenance Organization 813-22 CAA UK Approved Maintenance Organisation UK.145.01629							Issue Date: 25.05.1999 Revision Date: 12.01.2023	
		Scope of work / Capability List								
TCH	Engine Type	Type Certificate Data Sheet EASA <sup>1</sup> FAA		Part Name	Part Number	ATA Code	EASA Rating	FAA Rating	Scope of Work / Capability Level	Manual
<b>A) Complete Engine</b>										
Europrop International GmbH	TP400-D6	E.033	---	see MTT197-DP-List-TP400			B1	---	Up to complete Overhaul	Applicable Tech Pubs as per TCDS available via online TP400 AirN@v IETP (EPI) and local applications D6.0025.01 Maintenance/Engine Manual
<b>B) Components other than complete engine</b>										
International Aero Engines AG	V2500-A1 series	6324	E31NE	see MTT197-DP-List			C7	L-ACC	Overhaul	Applicable Tech Pubs as per TCDS available via online and local V2500 A1/A5 IETP 2A4406
International Aero Engines AG	V2500-A5/-D5 series	IM.E.069	E40NE	see MTT197-DP-List			C7	L-ACC	Overhaul	Applicable Tech Pubs as per TCDS available via online and local V2500 A1/A5 IETP 2A4406 V2500 D5 IETP 2A4415
International Aero Engines LLC	PW1100G-JM series	IM.E.093	E00087EN	See MTT197-DP-List			C7	L-ACC	Overhaul	Applicable Tech Pubs as per TCDS available via online PW1100G-JM Series IETP 5319451, 5319453 and SP-72-35 Special Procedures
Pratt & Whitney	PW1500G series	IM.E.090	E00090EN	see MTT197-DP-List			C7	L-ACC	Overhaul	Applicable Tech Pubs as per TCDS available via online PW1500G Series IETP 5325072
Pratt & Whitney	PW1900G series	IM.E.090	E00090EN	see MTT197-DP-List			C7	L-ACC	Overhaul	Applicable Tech Pubs as per TCDS available via online PW1900G Series IETP 5325767
Pratt & Whitney	PW2000	6310	E17NE	see MTT197-DP-List			C7	L-ACC	Overhaul	Applicable Tech Pubs as per TCDS available via local PWA Publication: PN1B8089
General Electric (GE)	CF6-80	6318 IM.E.007	E13NE E41NE	see MTT197-DP-List			C7	L-ACC	Repair	Applicable Tech Pubs as per TCDS available via local GE Publication: GEK108746
General Electric (GE)	CF34-10	IM.E.021	E00070EN	see MTT197-DP-List			C7	L-ACC	Repair	Applicable Tech Pubs as per TCDS available via local GE Publication: GEK112080
General Electric (GE)	GE90	IM.E.002	E00049EN	see MTT197-DP-List			C7	L-ACC	Repair	Applicable Tech Pubs as per TCDS available via local GE Publication: GEK108786
General Electric (GE)	GENx	IM.E.102	E00078NE	see MTT197-DP-List			C7	L-ACC	Repair	Applicable Tech Pubs as per TCDS available via local GE Publications: GEK112865 and GEK 114118
Engine Alliance	GP7200series	IM.E.026	E00072EN	see MTT 197-DP-List-GP7200			C7	L-ACC	Overhaul	Applicable Tech Pubs as per TCDS available via local Engine Alliance Publication: PN5702569
CFM International (CFMI)	CFM56-5B	E.003	E37NE E38NE	see MTT197-DP-List			C7	L-ACC	Repair	Applicable Tech Pubs as per TCDS available via local CFMI Publications: CFMI-TP.CD.516 and CFMI-TP.CD.518
	CFM56-7B	E.004	E00055EN E00056EN							
Europrop International GmbH	TP400-D6	IM.E.033	---	see MTT197-DP-List-TP400			C7	---	Overhaul	Applicable Tech Pubs as per TCDS available via online TP400 AirN@v IETP (EPI) and local applications D6.0025.01 Maintenance/Engine Manual CMM-TP400-D3309 Component Maintenance Manual


<sup>1</sup>) Type Certificate Data Sheet issued by EASA or a National Aviation Authority (NAA) being member of EASA

		<b>MTU Aero Engines AG</b> <b>LBA Approved Maintenance Organization DE.145.0019</b> <b>FAA Certificated Foreign Repair Station CK5Y782M</b> <b>TCCA Approved Maintenance Organization 813-22</b> <b>CAA UK Approved Maintenance Organisation UK.145.01629</b>							<b>Issue Date: 25.05.1999</b> <b>Revision Date: 12.01.2023</b>	
		<b>Scope of work / Capability List</b>								
TCH	Engine Type	Type Certificate Data Sheet		Part Name	Part Number	ATA Code	EASA Rating	FAA Rating	Scope of Work / Capability Level	Manual
		EASA	FAA							
Pratt & Whitney Canada (P&WC)	PW206series PW207series	IM.E.017	E42NE	see MTT197-DP-List			C7	L-ACC	Repair	Applicable Tech Pubs as per TCDS available via local P&WC publication Cleaning Inspection Repair (CIR) Manual 3040877
Pratt & Whitney Canada (P&WC)	PW306series	IM.E.051	E35NE	see MTT197-DP-List			C7	L-ACC	Overhaul	Applicable Tech Pubs as per TCDS available via online P&WC publication Cleaning Inspection Repair (CIR) Manual 30B4133
Pratt & Whitney Canada (P&WC)	PW307series	IM.E.035	E00071EN	see MTT197-DP-List			C7	L-ACC	Overhaul	Applicable Tech Pubs as per TCDS available via online P&WC publication Cleaning Inspection Repair (CIR) Manual 30B4133
Pratt & Whitney Canada (P&WC)	PW308series	IM.E.057	E00065NE	see MTT197-DP-List			C7	L-ACC	Overhaul	Applicable Tech Pubs as per TCDS available via online P&WC publication Cleaning Inspection Repair (CIR) Manual 30B4133
Pratt & Whitney Canada (P&WC)	PW530series	IM.E.048	E00053EN	see MTT197-DP-List			C7	L-ACC	Overhaul	Applicable Tech Pubs as per TCDS available via online P&WC publication Cleaning Inspection Repair (CIR) Manual 30J2306
Pratt & Whitney Canada (P&WC)	PW545series	IM.E.013	E00059EN	see MTT197-DP-List			C7	L-ACC	Overhaul	Applicable Tech Pubs as per TCDS available via online P&WC publication Cleaning Inspection Repair (CIR) Manual 30J2306
Pratt & Whitney Canada (P&WC)	PW800series	IM.E.096	E00093EN	see MTT197-DP-List			C7	L-ACC	Inspection Repair Modification	Applicable Tech Pubs as per TCDS available via online P&WC publication Cleaning Inspection Repair (CIR) Manual 33B1401

C) NDT Inspection (incl. OEM Standards and MTU Equivalents)				
Type of inspection	Specification	equivalent MTU Specification	EASA Rating	FAA Rating
Radiographic	ASTM-E-1742	MTV 1032-1/-4	D1	L-SS
Ultrasonic	ASTM-E-127, MIL-STD-2154	MTV 1033-1/-4	D1	L-SS
Magnetic Particle	ASTM-E-1444	MTV 1031-1/-7	D1	L-SS
Dye Penetrant	ASTM-E-1417 QPL-AMS-2644-1	MTV 1030-1/-4	D1	L-SS
Eddy Current	MIL-STD-271	MTV 1015 MTV 1016	D1	L-SS

Tabelle 2: Standort Jasionka

Table 2: Location Jasionka

		<b>MTU Aero Engines AG</b> <b>LBA Approved Maintenance Organization DE.145.0019</b> <b>FAA Certificated Foreign Repair Station CK5Y782M</b> <b>TCCA Approved Maintenance Organization 813-22</b> <b>CAA UK Approved Maintenance Organization UK.145.01629</b>							<b>Issue Date: 25.05.1999</b> <b>Revision Date: 12.01.2023</b>	
		<b>Scope of work / Capability List</b>								
TCH	Engine Type	Type Certificate Data Sheet		Part Name	Part Number	ATA Code	EASA Rating	FAA Rating	Scope of Work / Capability Level	Manual
		EASA <sup>2</sup>	FAA							
International Aero Engines AG	V2500-A1 series	6324	E31NE	see MTT197-DP-List-Jasionka			C7	L-ACC	Overhaul	Applicable Tech Pubs as per TCDS available via online and local V2500 A1/A5 IETP 2A4406
International Aero Engines AG	V2500-A5/-D5 series	IM.E.069	E40NE	see MTT197-DP-List-Jasionka			C7	L-ACC	Overhaul	Applicable Tech Pubs as per TCDS available via online and local V2500 A1/A5 IETP 2A4406 V2500 D5 IETP 2A4415
International Aero Engines LLC	PW1100G-JM series	IM.E.93	E00087EN	see MTT197-DP-List-Jasionka			C7	L-ACC	Overhaul	Applicable Tech Pubs as per TCDS available via online PW1100G-JM Series IETP 5319453
Pratt & Whitney	PW2000	6310	E17NE	see MTT197-DP-List-Jasionka			C7	L-ACC	Overhaul	Applicable Tech Pubs as per TCDS available via local PWA Publication: PN1B8089
General Electric (GE)	CF6-80	6318 6319 IM.E.007	E13NE E41NE	see MTT197-DP-List-Jasionka			C7	L-ACC	Overhaul	Applicable Tech Pubs as per TCDS available via local GE Publication: GEK108746
General Electric (GE)	CF34-8 CF34-10	IM.E.053 IM.E.021	E00063EN E00070EN	see MTT197-DP-List-Jasionka			C7	L-ACC	Overhaul	Applicable Tech Pubs as per TCDS available via local GE Publication: GEK112030, GEK108752, GEK112080

<sup>2)</sup> Type Certificate Data Sheet issued by EASA or a National Aviation Authority (NAA) being member of EASA