

WEBINAR

Alternative Parts

Hosted by IATA

November 19th, 2025



IATA Anti-Trust/Competition Guidelines

Do not discuss:

- Any element of prices, including fares or service charges
- Commissions
- Allocations of customers or markets
- Marketing plans, commercial terms or any other strategic decision
- Group boycotts
- Your relations with agents, airlines, or other third parties
- Any other issue aimed at influencing the independent business decisions of competitors

Introduction

Meet the presenters



**Stephanie
Lambrinakos-Raymond**
IATA, Sr. Manager
Technical Operations



Chris Markou
IATA, Head of Technical
Operations



Patrick Markham
HEICO, VP Technical
Services



Jason Dickstein
MARPA, President

Approved Alternative Parts (PMA Parts) Webinar

November 19th, 2025	
Time Slot (EST)	Topic
10h00 – 10h05	<p>Welcome Remarks IATA Anti-trust guidelines, Introduction, & Agenda Stephanie Lambrinakos-Raymond, Sr. Manager, Tech. Ops, IATA</p>
10h05 – 10h20	<p>IATA Alternative Solutions Initiatives Stephanie Lambrinakos-Raymond, Sr. Manager, Tech. Ops Performance, IATA Chris Markou, Head of Tech. Ops, IATA</p>
10h20 – 11h05	<p>Approved Alternative Parts Pat Markham from HEICO</p>
11h05 – 11h50	<p>EASA Acceptance of FAA-PMA and FAA-DER Repair Jason Dickstein from MARPA</p>
11h50 – 12h00	<p>Closing Remarks Guidance material & upcoming approved alternative solutions workshop</p>

Webinar Logistics

- The webinar is being **recorded**
- Attendees can submit questions through the Q&A feature

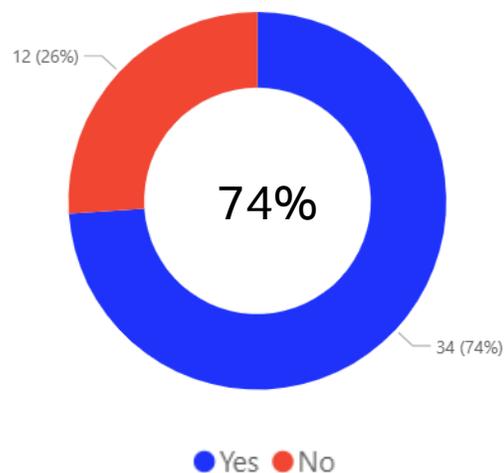
IATA Alternative Solutions Initiatives



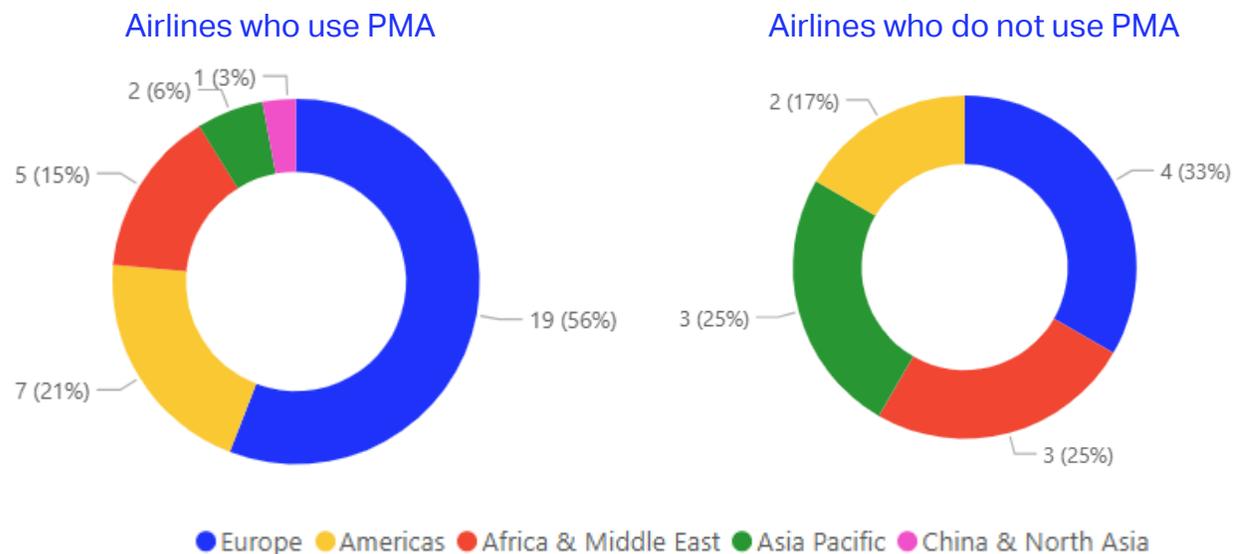
IATA PMA Survey Results

Participation from 46 airlines regarding the use of PMAs within their fleet

Does your company use
PMAs in their fleet?

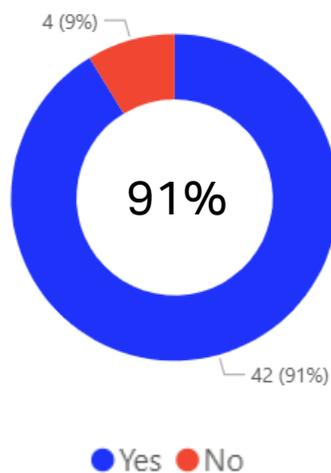


Regional variations

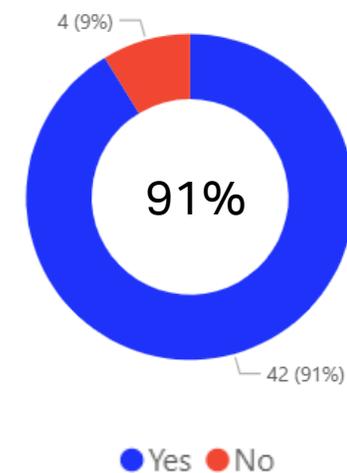


IATA PMA Survey Results – cont'd

Would widespread market acceptance of PMA by airlines and lessors change the way your company views these parts?

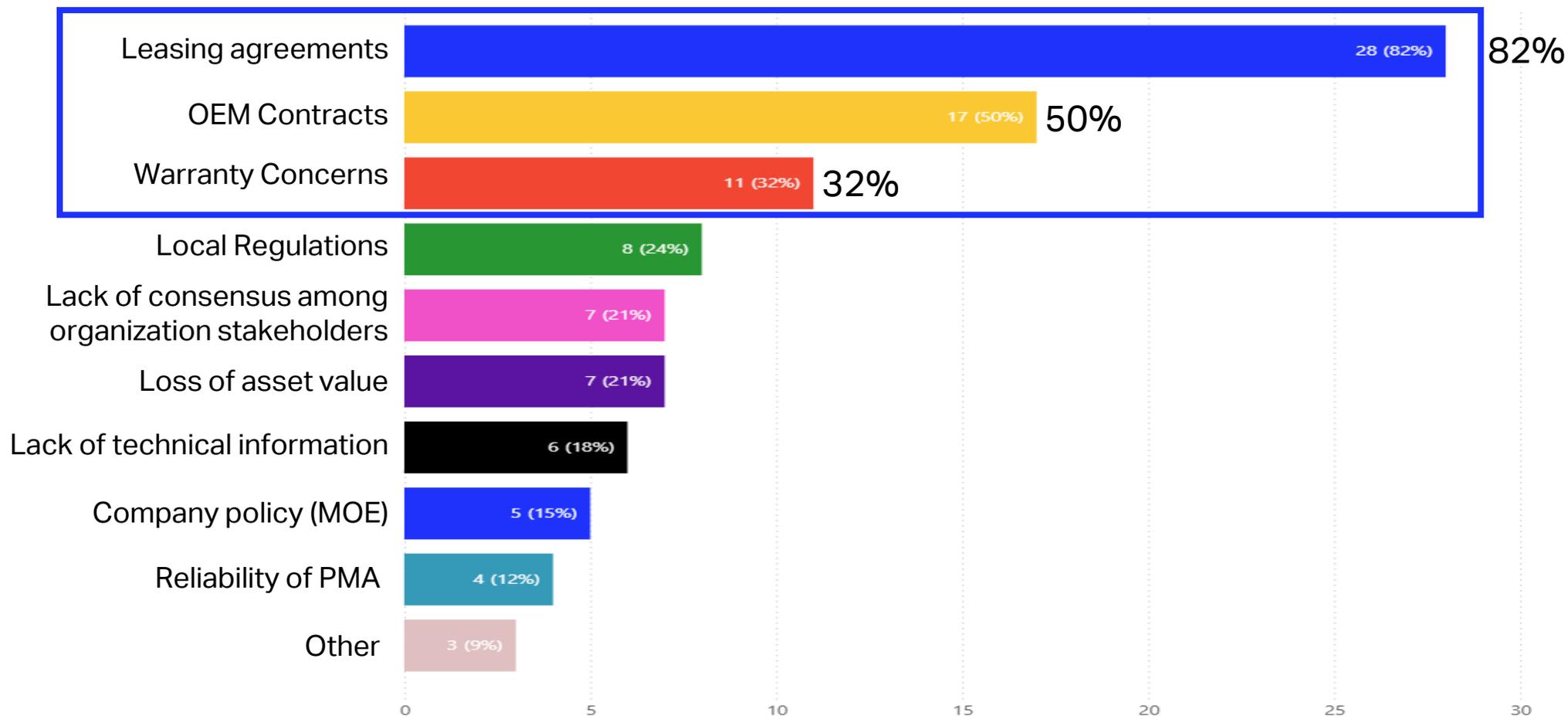


Does your company see value in an industry forum for sharing experiences, case studies, and issues around PMA use?



IATA PMA Survey Results – cont'd

What obstacle is stopping your company from using PMAs?



IATA Lessor Workshop

Workshop with 25 participants from various lessors, airlines, and leading organizations in aviation.

Restrictions are due to the impact on transferability & asset value

Mapped the impacts based on groups of category of parts.

Part category	Acceptable				Deferred for subsequent review/discussion					
	Consumables/ Expendables	Interiors NonSerialized	Interiors Serialized	Piece Parts* for non critical parts	Rotables/ Repairables/OCCM	Repairs on Airframe Structures	Removable structural Components	Powerplant LRUs piece parts (non- critical)	Powerplant LRUs /Accessories	LLPs
Transferability	No Impact	No impact	As delivered originally		for non IPC parts				for non IPC parts	
Asset Value	No Impact	No impact	Value per contract							

*Excluding engines, auxiliary power units (APU), and landing gears (LG)

IATA Lessor Workshop – cont'd

Next Steps

- IATA to release a statement on the agreed upon recommendations on the adoption of PMA parts at aircraft redelivery
- Host another workshop dedicated to engines, APUs, LGs

Considerations

- Redelivery conditions (and not operational use) is important for lessors ("Quiet enjoyment")
- Licensed PMA (i.e. the part is listed in the IPC) are acceptable
- In cases such as AOG, supply chain (parts shortages, long TATs, obsolescence etc.) the operator should discuss urgently with the lessor to clarify the way forward and avoid complications and delays.

HPG

HEICO PARTS GROUP

Approved Alternative Parts

Pat Markham
VP Technical Services
954 554 6235 (cell)
pmarkham@heico.com



ABOUT HEICO

HEICO Corporation is a rapidly growing aerospace and electronics company focused on niche markets and cost-saving solutions for our customers.

Our products are found in the most demanding applications requiring the highest reliability parts and components, such as aircraft, spacecraft, defense equipment, medical equipment, and telecommunications systems.



Founded in 1957, **67 years in business**



NYSE listed (HEI, HEI.A)



Market Capitalization of **over \$20 Billion**



Annual Revenue of **over \$2.2 Billion**



Nearly 10,000 Team Members in 90+ facilities, across 26 US states and 24 countries

RANKED BY **Forbes**



Forbes List Of The 100 Most Trustworthy Companies In America
Transparency Of Accounting/Governance



Forbes Best Small Companies
Five Years In The Top 100



Forbes World's Most Innovative Growth Companies





PARTS

HEICO Parts Group (HPG)

HEICO Parts Group (HPG) is the world's largest independent supplier of FAA-PMA approved engine and component parts for virtually every engine platform and ATA chapter

The information contained in this document is confidential & proprietary to HEICO Corporation

Holding over 19,000 FAA approvals on parts for:

- Nearly every aircraft and engine platform
- Every area of aircraft and engine

Producing more than 500 new, highly engineered parts each year:

- PMA Management
- PMA Kitting
- In-house Manufacturing

Research & Development

Advanced Technical Library

Cutting-edge Equipment to Re-Engineer, Design and Test In-house

History of the “PMA”

1955: Civil Air Regulations CAR 1.55

Early authority to approve parts

Geared to support aircraft returning from WWII and entering civilian service

1965: FAA 14 CFR 21 Subpart K

Approval of Materials, Parts, Processes, and Appliances

1975: FAA 14 CFR 21.303

Parts Manufacture Approval “PMA”

2011: FAA 14 CFR 21 Subpart K

Parts Manufacture Approvals



History of the PMA Industry

1980s

LCCs changing business model drives cost reductions
OEMs characterize PMA and surplus as a “cheap alternative”
PMA parts and companies become more sophisticated

***PMA still seen
as a “niche” activity***

1990s

LHT is the first airline/major MRO to partner with HEICO
LCCs, industry cycles, fuel and labor add pressure to legacy carriers
More complex PMA parts are developed and in successful service
PMA industry group started (MARPA)
OEMs react by offering “deals” in exchange to not use PMA

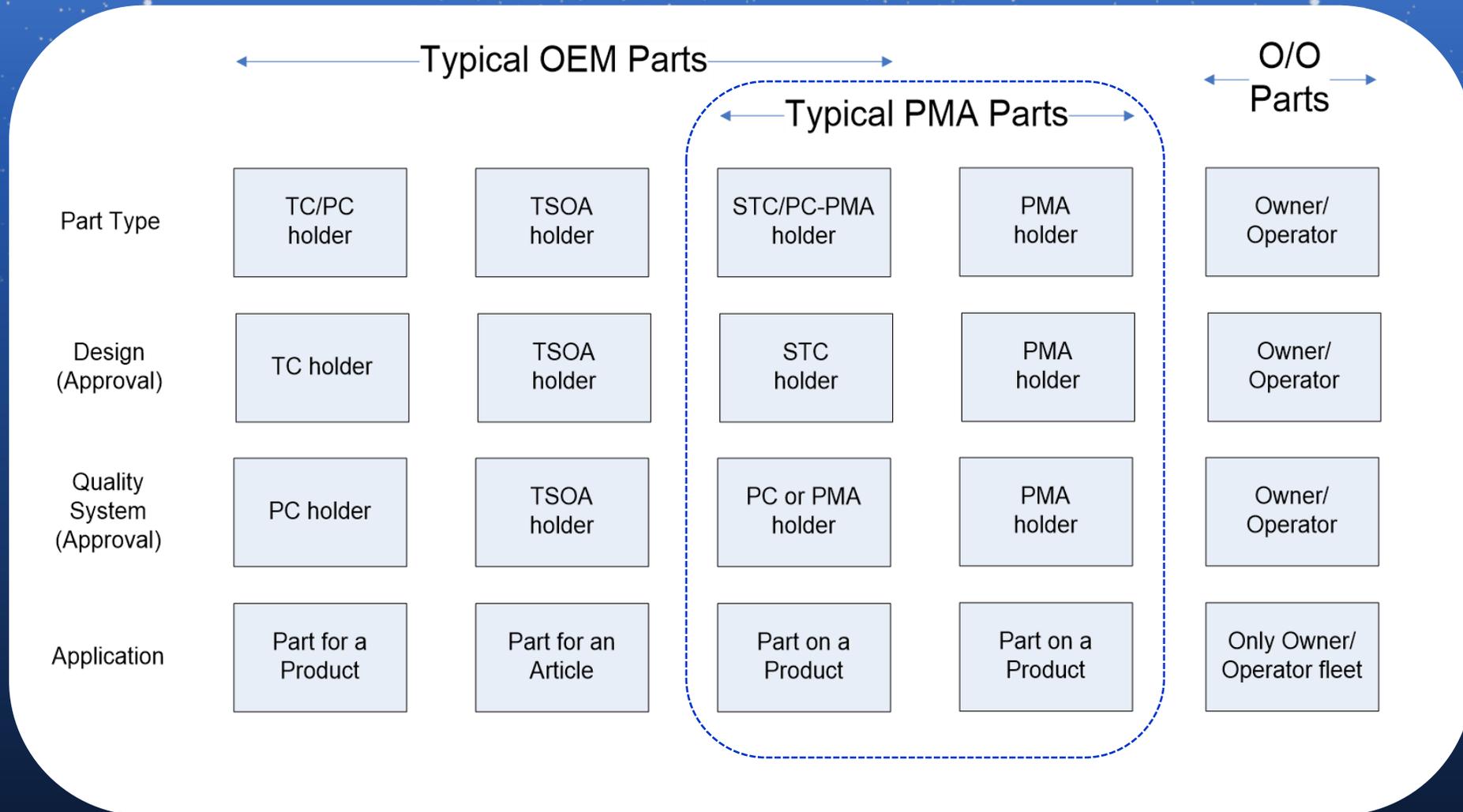
***PMA becomes a
topic for “discussion”***

2000s

PMA becomes even more widely accepted and mainstream
FAA commissions RAFT study resulting in SAIB addressing PMA technical concerns and OEM commercial responses to PMA
Aircraft Technology publishes article in Nov. 2008:
“End of the PMA Legitimacy Debate”

***The “End of the PMA
(Safety) Legitimacy
Debate”***

Replacement Part Options



Design and Approval Basis for STC and PMA

Part Type	STC	PMA License	PMA Identity	PMA Test & Comp
Design Basis	Major Change to the Type Design	Identity via License Agreement	Identical to Approved Design	Test and analysis show equivalency to Approved Design
Design Approval	14 CFR § 21.113 Order 8110.4	14 CFR § 21.15 Order 8110.4	14 CFR § 21.303 Order 8110.42	
Production Approval	Parts produced under Parts Manufacturer Approval 14 CFR § 21.307 & Order 8110.42			

STC, Identically (with/without License) or Test and Computation is a reflection of the design basis

Different Types of Approval Basis for PMA

STC (Supplemental Type Certificate)

Major Change to Type Design

Separate approval for Design and Production

Identicality by License

Design is approved with the Aircraft / Engine

Typical for Sub-Tier OEM

Test and Computations (Typical PMA)

Reverse Engineered Parts.

Must be Equal to or Better than the “OEM” part

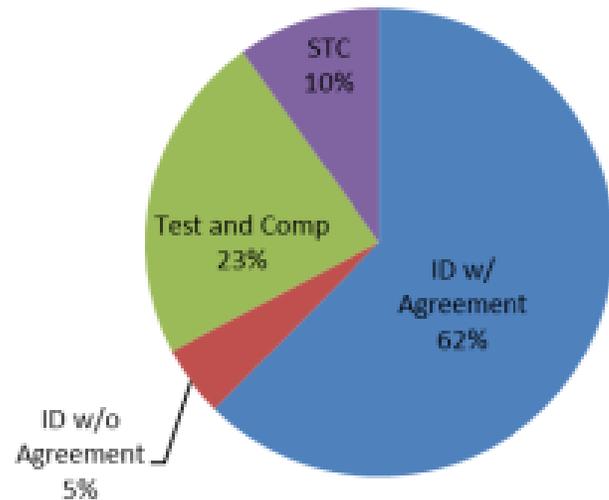
Identicality without a License

Design is identical to TC Holder but used without agreement

FAA-PMA Approvals by PMA Type

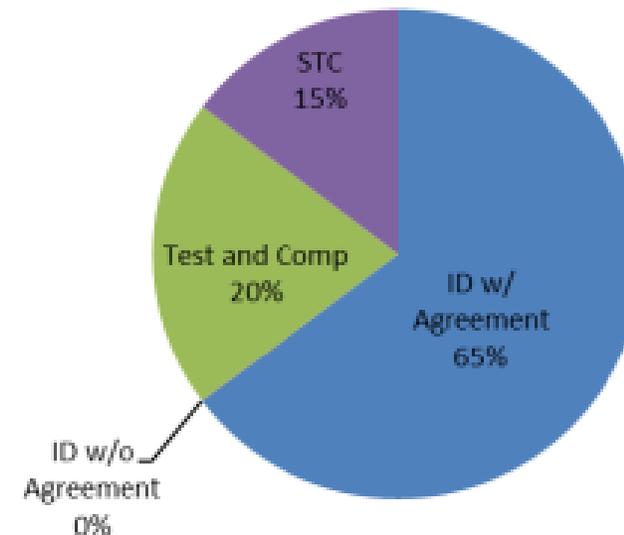
Parts Manufacturer Approval - Totals

1,506,956 PMA articles as of 12/21/2023



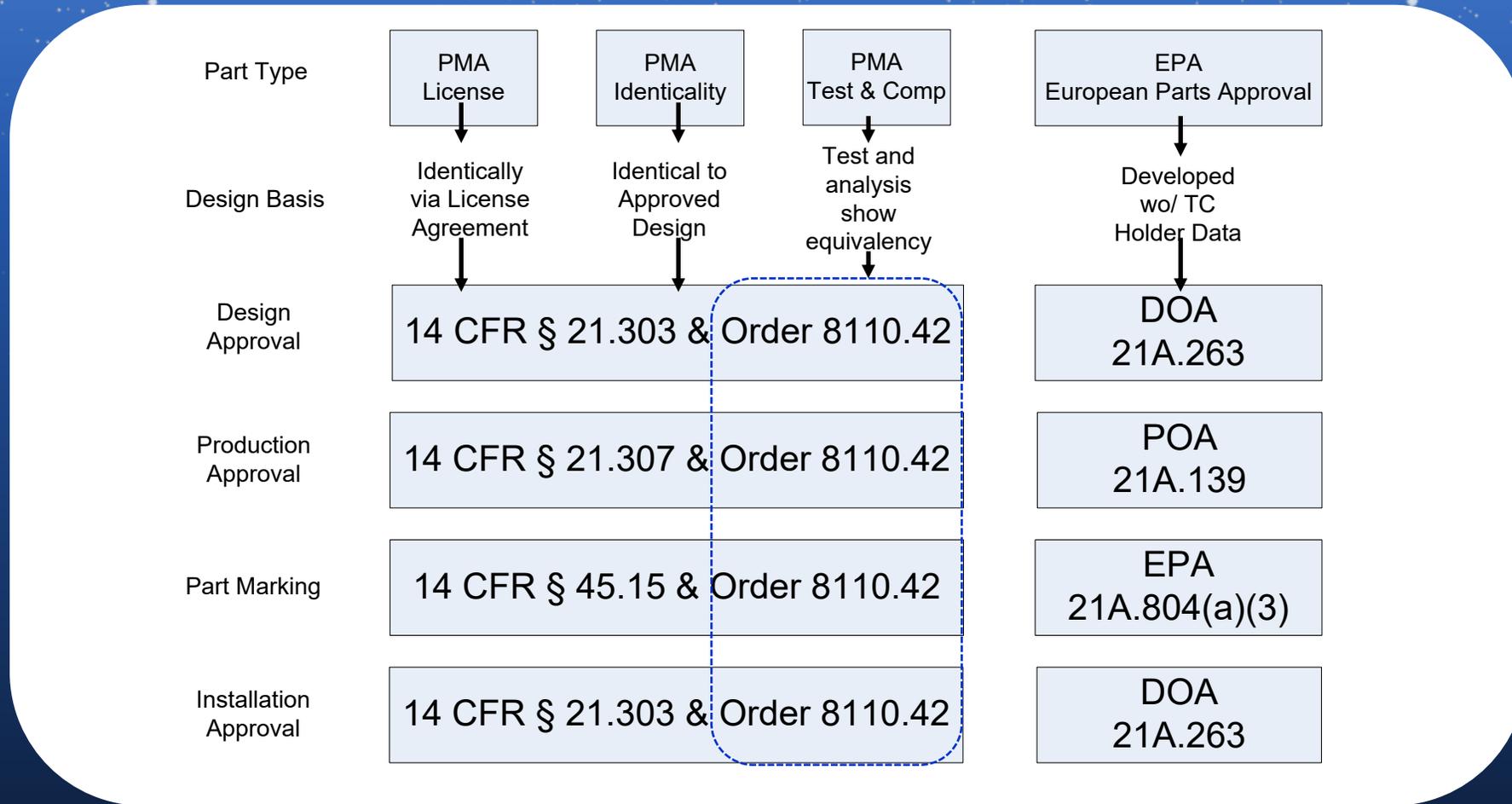
Parts Manufacturer Approval - Totals

18958 PMA articles in 2023



FAA Summary of FAA-PMA approvals
<https://drs.faa.gov/browse/PMA/doctypeDetails>

PMA vs EPA Parts (Where are we now?)



FAA Order 8110.42 ties it all together for the PMA Holder
EPAs need a DOA, a POA, EPA marking and a minor change

PMA vs EPA Parts (How did we get here?)

EASA Preliminary Regulatory Impact Assessment

The processes used for the design approval of replacement or modification parts are indeed different in Part 21 and FAR 21, mainly due to the basic principles that were used to draft JAR-21, and which are still valid in Part-21. These principles are:

- Clear separation of regulations dealing with design and production
- Demonstration of design capability required, except for minor design changes
- Required link with TC Holders for applicants proposing major design changes, when they need the support of the TC Holders to get design or certification data.
- a replacement part designed by someone who is not the TC holder is considered a change to the design even if it is identical to the original part.

These EU conditions seem to be more demanding than the equivalent US regulations. In addition, the respective role and involvement of EASA and FAA are different.

EASA and the FAA took different paths:

FAA path is vertically integrated

(Approves Parts)

EASA path has clear separation

(Approves Organizations)

Source: EASA Preliminary Regulatory Impact Assessment Task Nr. 21.046

International Parts Approvals

Country	Technical Standard Order	Parts Approval
United States	TSOA	PMA (Parts Manufacturer Approval)
Australia	ATSO	APMA (Australian Parts Manufacture Approval)*
Canada	CAD-TSO	PDA (Part Design Approval)
Brazil	CPAA	CPAA (Certificado de Produto Aeronáutico Aprovado)
European Union	ETSOA	EPA (European Parts Approval)**
Japan	TSO	JCAB PMA (JCAB Parts Manufacture Approval)***
United Kingdom	UKTSO	UKPA (United Kingdom Parts Approval)**

* APMA parts are accepted for Part 23 sized aircraft

** EPA and UKPA parts are not formally accepted by FAA EASA TIPs and FAA UK CAA IP

*** JCAB PMA part accepted for licensed JCAB PMA parts

Source: FAA Bilateral Agreement Listing

[Aviation Safety - International Agreements | Federal Aviation Administration](#)

What is a Major vs Minor Repair?



1.12.52 “Repair” can be classified as major or minor. A major repair is a repair that, if improperly done, might appreciably affect weight, balance, structural strength, performance, powerplant operation, flight characteristics, or other qualities affecting airworthiness or that is not done according to accepted practices or cannot be done by elementary operations. A minor repair is any repair other than a major repair.

Major Repair	A repair that, if improperly done, might appreciably affect weight, balance, structural strength, performance, power plant operation, flight characteristics, or other qualities affecting airworthiness; or a repair that is not done according to accepted practices or cannot be done by elementary operation.
Minor Repair	A repair other than a major repair.

The potential effect if done wrong..

Or cannot be done with elementary operations

“DER Repair” is but one type of Major Repair Approvals

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

1. PROJECT NO. (if applicable)

DETERMINATION OF COMPLIANCE WITH AIRWORTHINESS STANDARDS

AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION

2. MAKE _____ 3. MODEL NO. _____ 4. TYPE (Aircraft, Engine, Propeller, Actuator, etc.) _____ 5. NAME OF APPLICANT _____

PURPOSE OF DATA

6. IN SUPPORT OF: TC/ATC STC PMA Major Repair Major Alteration Other (Explain) _____

PROJECT SPECIFIC INFORMATION:
PURPOSE OF SUBMITTAL: _____

LIST OF DATA
List the data for this submittal including applicable drawings, material specifications, and process specifications and any other data that shows or contributes to a showing of compliance with the applicable requirements listed in Block 2. A reference to a drawing list, including revision level, may be used.

7. IDENTIFICATION: _____ 8. TITLE OF DATA: _____

9. APPLICABLE REQUIREMENTS (List specific sections and amendment levels) _____

10. FAA DESIGNEE APPROVAL: As directed by the Administrator and in accordance with the conditions and limitations of authorization under 14 CFR Part 183, data listed above, and on attached sheets numbered _____ have been examined in accordance with established procedures. I recommend:

APPROVE the data above RECOMMEND APPROVAL of the data above

FOR MAJOR REPAIR OR MAJOR ALTERATION ONLY - Other data approvals ARE REQUIRED ARE NOT REQUIRED

EXPLAIN: _____

MANAGING OFFICE WAS CONTACTED (required when approval was made outside the U.S. and/or involved critical or life limited parts)

11. DER/DCA NUMBER _____ 12. PRINTED NAME _____

13. TECHNICAL DISCIPLINE _____ 14. SIGNATURE _____ 15. DATE _____

17. PRINTED NAME/FAA OFFICE _____ 18. TECHNICAL DISCIPLINE _____

19. SIGNATURE _____ 20. DATE _____

FAA Form 8110-3 (09/20) Supersedes Previous Edition Page 1 of 1

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

FAA Project No. N/A

STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS

AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION

NAME: Butterfly MODEL NO.: B104 TYPE (Aircraft, Engine, Propeller, etc.): Airplane NAME OF APPLICANT/AUTHORIZATION NO.: Customer/Repairer's Name

LIST OF DATA

IDENTIFICATION TITLE

The Mangle Aircraft Organization Designation Authorization approves this data. This constitutes FAA approval of the major repair data listed.

The systems and equipment aspects are not included. Valid only for Butterfly B104, SN 1983E.

Stress Report, "Fuselage Repair, C.F.C."

Report No. DD 99-34 Rev. A 10/20/05

Installation Drawing, Pages 1,2,3,4,5-Fuselage Repair

(Detail list of data - drawings, reports, etc., including revision level and dates)

APPLICABLE REQUIREMENTS (List specific sections and amendment levels)

APPROVAL - As directed by the Administrator and in accordance with the conditions and limitations of authorization under 14 CFR, data listed above and certified to have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards is as follows:

Recommend approval of these data

Approve these data

SIGNATURE(S) OF UNIT REPRESENTATIVE: Blake Griffin NAME: Blake Griffin CLASSIFICATION: Structures DATE: 12/20/07

Mangle Aircraft-893993-CE

FAA Form 8100-9 (2-02)

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

Form No. 337-000 Rev. 07/10/06 Electronic Tracking Number: For FAA Use Only

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of the form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301a)

1. Aircraft: Nationality and Registration Mark _____ Serial No. _____
Make _____ Model _____ Series _____
Name (As shown on registration certificate) _____ Address (As shown on registration certificate) _____
City _____ State _____ Date _____
Country _____

2. Owner: _____

3. For FAA Use Only

4. Type: Repair Alteration Limit Make Model Serial No.

AIRFRAME (As described in item 1 above)

POWERPLANT

PROPELLER

APPLIANCE

5. Unit Identification

6. Conformity Statement

A. Agency's Name and Address: Name _____ Address _____ City _____ State _____ Country _____

B. Kind of Agency: U.S. Certified Mechanic Manufacturer Foreign Certified Mechanic Certificate Holder Station Certified Maintenance Organization

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B Signature/Date of Authorized Individual _____

Pursuant to the authority given persons specified herein, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is Approved Rejected

BY: FAA Standards Inspector _____ Manufacturer _____ Maintenance Organization _____ Persons Approved by Canadian Department of Transport _____

FAA Designee _____ Repair Station _____ Inspection Authorization _____ Other (Specify) _____

Certificate or Designation No. _____ Signature/Date of Authorized Individual _____

FAA Form 337 (10/06) Page 1

FAA Letters can also be used to approve a Major Repair

Form 8110-3
DER Approval

Form 8100-9

Form 337

Each Approval Method is typically accepted by Bilateral Agreements

The information contained in this document is confidential & proprietary to HEICO Corporation

EASA Acceptance of Major Repairs

3.3.5 Design Data for Repairs

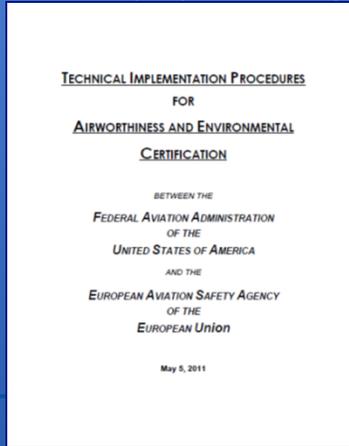
3.3.5.3 EASA Acceptance of FAA Repair Design Data

- (a) EASA shall accept data used in support of major repairs regardless of the SoD of the product, part or article, if:
- (1) EASA has certificated/ validated the product or article;
 - (2) The FAA is the Authority of the SoD for the repair design data; and
 - (3) The FAA repair design data approval is substantiated via an FAA letter, FAA Form 8110-3, FAA Form 8100-9, FAA Form 337 or a signed cover page of a repair specification.

EASA Accepts

- FAA Letter
- Form 8110-3
- Form 8100-9
- Form 337
- Signed Repair Specification

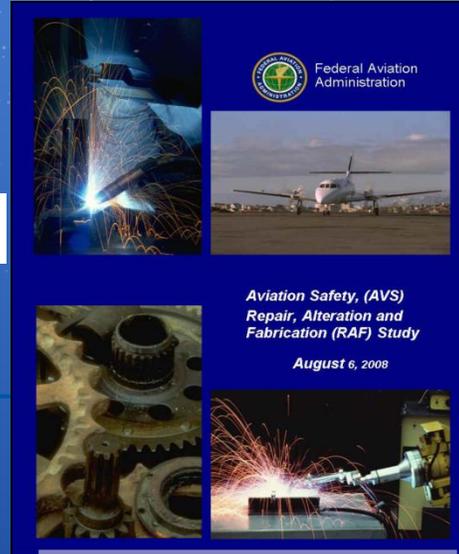
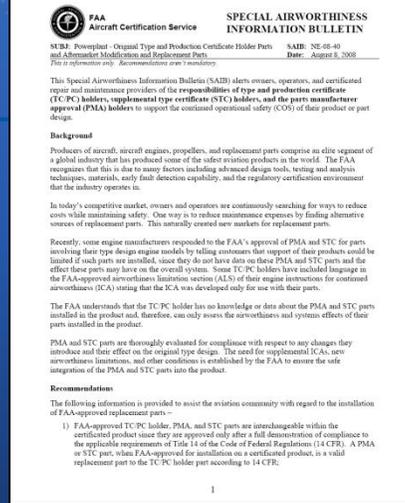
Strong Regulatory Support



**EASA/FAA TIPS
2011 BASA**

**2011 BASA
EASA/FAA TIPS**

FAA SAIB NE-08-40



FAA RAF Study

FAA RAF Study

Korea / FAA

China / FAA

Hong Kong / FAA

Argentina/ FAA

IMPLEMENTATION PROCEDURES

UK/ FAA

IMPLEMENTATION PROCEDURES

for
AIRWORTHINESS

covering
DESIGN APPROVAL, PRODUCTION AND SURVEILLANCE
ACTIVITIES,
EXPORT AIRWORTHINESS APPROVAL,
POST DESIGN APPROVAL ACTIVITIES, AND
TECHNICAL SUPPORT

Under the Agreement between
The Government of the United States of America
and
The Government of the United Kingdom of Great Britain and
Northern Ireland
For the Promotion of Aviation Safety

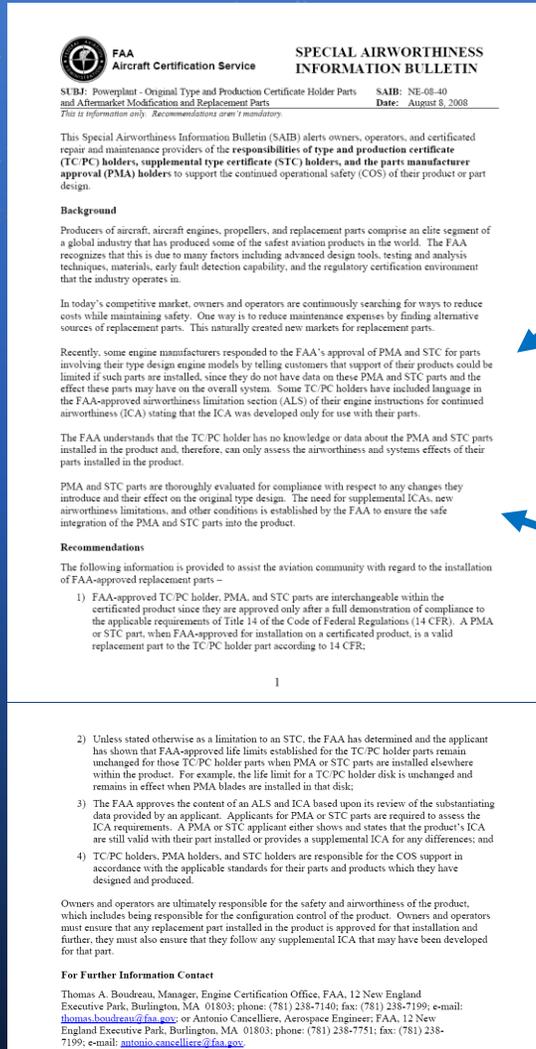
Revision 1
Effective: January 1, 2021

(and many more)

HEICO formed as Heinicke Instruments
We are not aware of any country that does
not allow FAA-PMA parts and DER (FAA Major) Repairs.

FAA SAIB: NE-08-40

Use of PMA Parts and DAH ICA



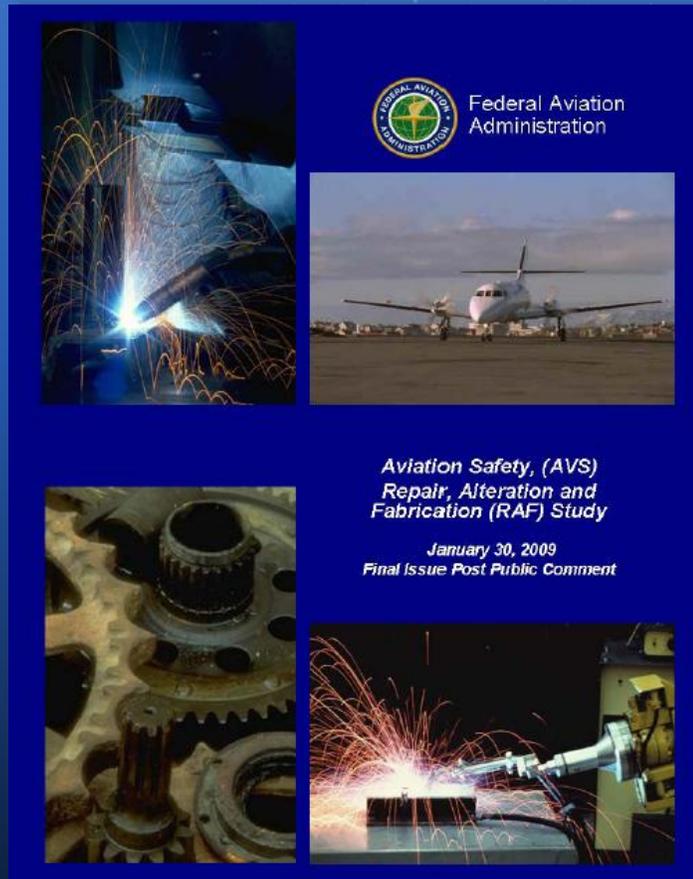
“Recently, some engine manufacturers responded to the FAA’s approval of PMA and STC for parts involving type design engine models by telling customers that support of their products could be limited if such parts are installed...Some TC/PC holders have included language in the FAA-approved airworthiness limitation section (ALS) of their engine instructions for continued airworthiness (ICA) stating that the ICA was developed only for use with their parts.”

“PMA and STC parts are thoroughly evaluated for compliance with respect to any changes they introduce and their effect on the original type design. The need for supplemental ICAs, new airworthiness limitations, and other conditions is established by the FAA to ensure the safe integration of the PMA and STC parts into the product.

PMA and STC parts are reviewed
Unless Otherwise Specified
The ICA remains the same.

FAA RAF Study on Safety and Quality

FAA Aviation Safety Repair, Alteration and Fabrication (RAF) Team spent 18 months evaluating aftermarket safety.



- ▶ Owner/Operators have a variety of sources to obtain parts; TC/PC Holder, PMA Holder, TSOA, repair or alter existing parts, fabricate parts during maintenance, owner produce parts, etc.
- ▶ FAA concludes “No difference” in airworthiness of parts from these sources
- ▶ Team did not find substantive evidence of failures or unsafe conditions from non-TC/PC holder developed data
- ▶ Population of PMA parts...has increased substantially ...yet the occurrence of service difficulties and AD’s have not....



PMA Parts Safety Record

- ▶ Since 1941 the total number of ADs on small and large aircraft is approx. 19,310 (thru March 2023)
- ▶ A MARPA review of ADs issued on PMA parts¹ since 1941 has found that...
 - ▶ There are 26 ADs that apply exclusively² to PMA products
 - ▶ 14 are on GA (piston) applications, 4 on rotorcraft, 4 on biz jets
 - ▶ 3 are on heavy airframe (hose nut, fire ext. cartridge and fuel cell)
 - ▶ 1 is on a large commercial engine

Source: Aviation Data Research (w/ subsequent updates)

- ▶ Over the past 82 years on PMA replacement parts, 3 ADs issued on Large Airframe and 1 AD on Large Engines.

Notes:

1. Includes all PMA Replacement Parts (not HEICO exclusive) Approved by a) Test and Computation and b) Identity
2. Exclusive means either a design or manufacturing defect unique to the PMA part

HEICO'S EXTENSIVE PMA & DER PARTS

ENGINES

CFM56-3/ -5 / -7	Gears	Fan Exit Guide
CF6-50 / -80	Shafts	Vanes
CF34	Bearings	Shrouds
GE-90	Starters	Heat Shields
GENx	Rings	Insulation
RB211 / Trent	Spacers	Blankets
PW2000		Fuel Pumps
PW4000		Nozzles
V2500		

INTERIORS

- In Flight Entertainment
- Lavatories
- Seat Parts
- Tray Tables
- Galleys
- Overhead Bins

COCKPIT/AVIONICS

- INUs, IRUs
- Display Units
- DGAs
- Instruments
- Autopilots
- Battery Packs
- Cockpit Paper
- Lights
- Sensors

COMPONENTS

- Electro-mechanical
- Hydraulic
- ACMs, CSD/IDG
- Batteries
- APUs
- Fuel
- Electronic
- Pneumatic/Bleed Valves

AEROSTRUCTURES

- Thrust Reversers
- Engine Cowlings
- Flight Control Surfaces
- Radomes
- Exhaust Nozzles
- Doors

WING

- Flight Controls
- Actuation Systems
- Flex Shafts
- Guides

LANDING GEAR

- Wheels & Brakes
- Landing Gear Components

HEICO DESIGNED PARTS

Quality & Performance

Total Quantity of HEICO Parts Sold:

87,236,461*

Number of SBs Issued:

Number of ADs Issued:

Number of IFSDs:

0

*Through 01/07/25



PROVEN FIELD EXPERIENCE
The HEICO Design & Quality Process Works!

PMA RESTRICTIONS

Myths & Misconceptions

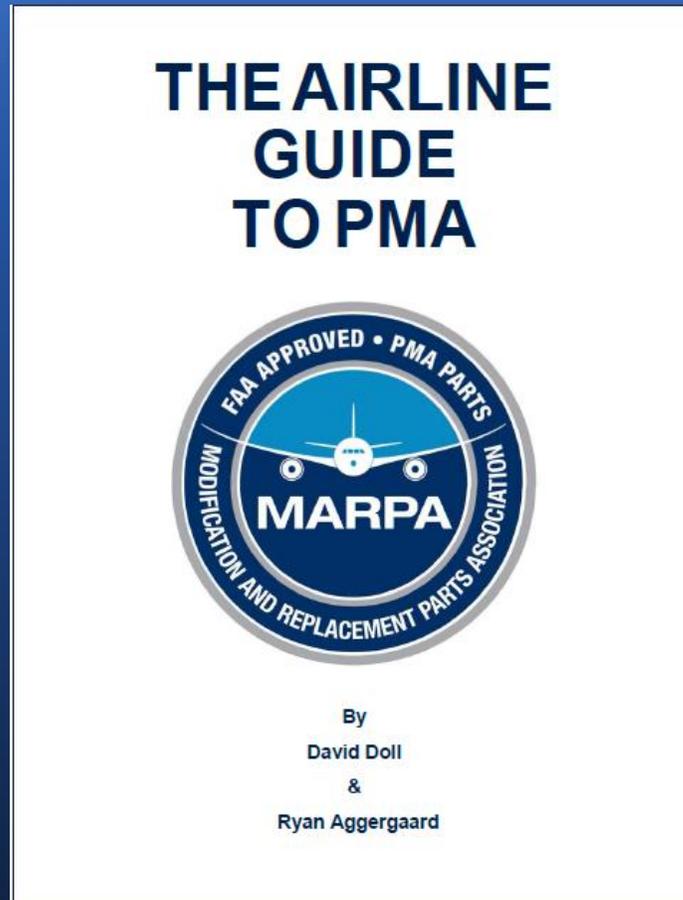
MYTH

-  Lessors will not allow the use of PMA parts
-  PMA parts decrease the value of your asset
-  Using PMA parts voids the warranty
-  PMA parts are of inferior quality to the OEM parts
-  PMAs / DERs are not safe
-  OEMs are the experts in maintenance

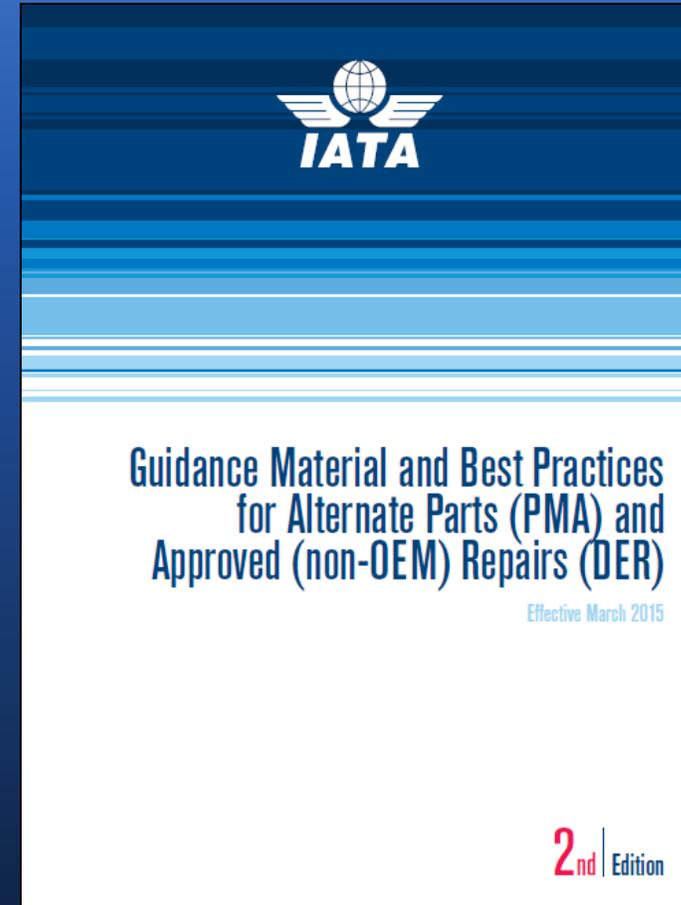
FACT

-  Certain lease agreements do allow the use of PMA parts. Others have been renegotiated, to allow the use of PMA parts.
-  The use of HEICO PMA parts do not decrease the value of your asset. HEICO parts are not life limited critical parts
-  HEICO will warranty their parts at the same level as the OEM
-  The FAA approval process and the stringent HEICO reverse engineering process guarantees that HEICO's PMA parts are equal or better than the OEM
-  The FAA would not approve the parts if they were deemed unsafe
-  They are experts, but they are not the only experts

Other PMA Light Reading



<http://www.pmaparts.org/pdf/AirlineGuideToPMA.pdf>



<https://www.iata.org/contentassets/bf8ca67c8bcd4358b3d004b0d6d0916f/pma-der-2nd-edition.pdf>

A GLOBAL NETWORK OF CUSTOMERS*



* Supporting 250 A/L and 500 MRO's



2025 MARPA EVENT SPONSORS

HEICO



ATS AVIATION TECHNICAL SERVICES

JET PARTS ENGINEERING

adp INC.
Delivering Advanced solutions



MITCHELL PMA
A JPE COMPANY

NSL
AEROSPACE

WENCOR

First Aviation Services Inc.
VOGT AERO

EASA Acceptance of FAA-PMA and FAA-DER Repair

IATA Webinar on Approved Alternative Parts in Aviation

November 19, 2025

Jason Dickstein, MARPA President



2025 MARPA EVENT SPONSORS



- PMAs are:
 - Design approvals issued by the FAA
 - Production approvals issued by the FAA
 - Installation eligibility approved by the FAA
- In the United States, it is legal to install a PMA part on an aircraft as long as the maintenance performance standards (e.g. 14 C.F.R. § 43.13) will be met.

Can I use PMAs on EU-Registered Aircraft

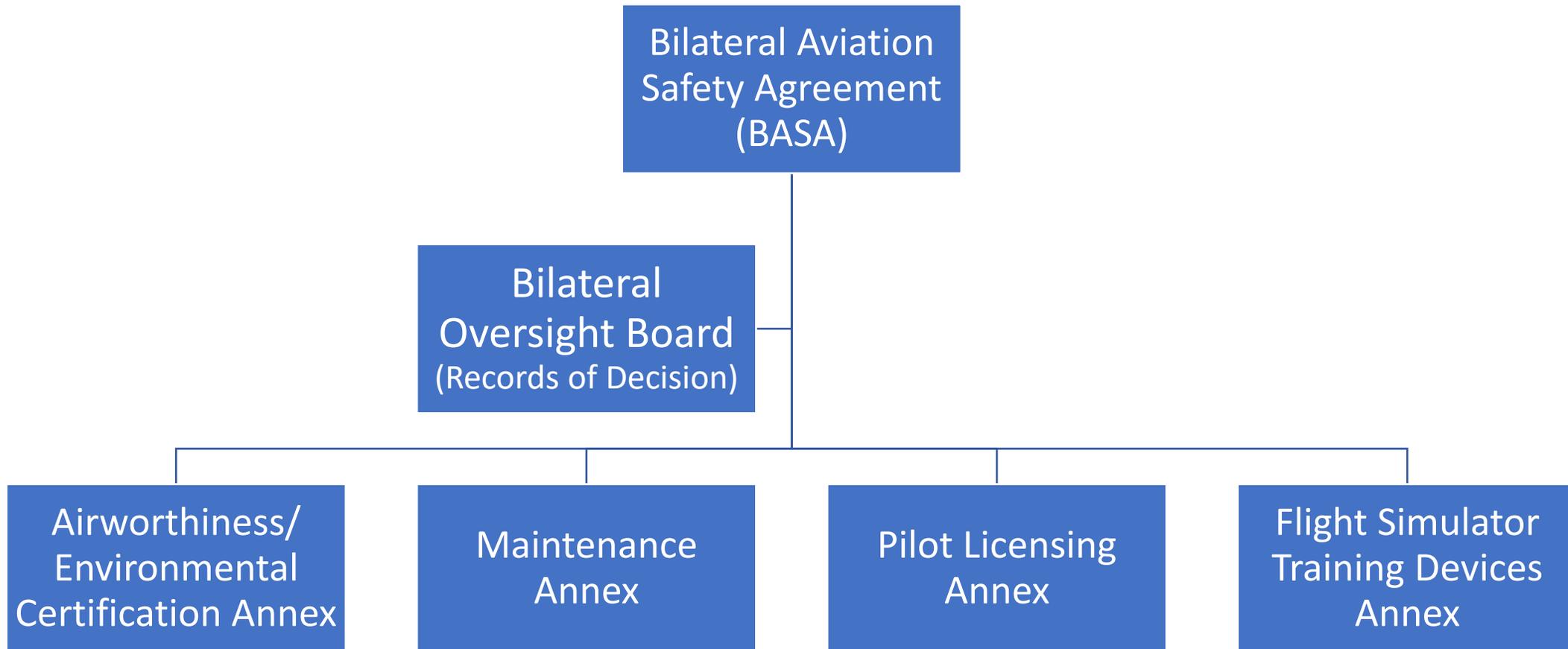


- Country of registry defines maintenance criteria
- An aircraft registered on an EU-member registry must follow the EU-member's installation requirements
 - Typically built around the EASA regulations
 - As influenced by EASA bilateral agreements
- EU installation standards are built around EASA 145.A.42, which requires an EASA Form 1 or equivalent
 - 8130-3 is equivalent *to the extent authorized* under the bilateral agreements

The Agreements



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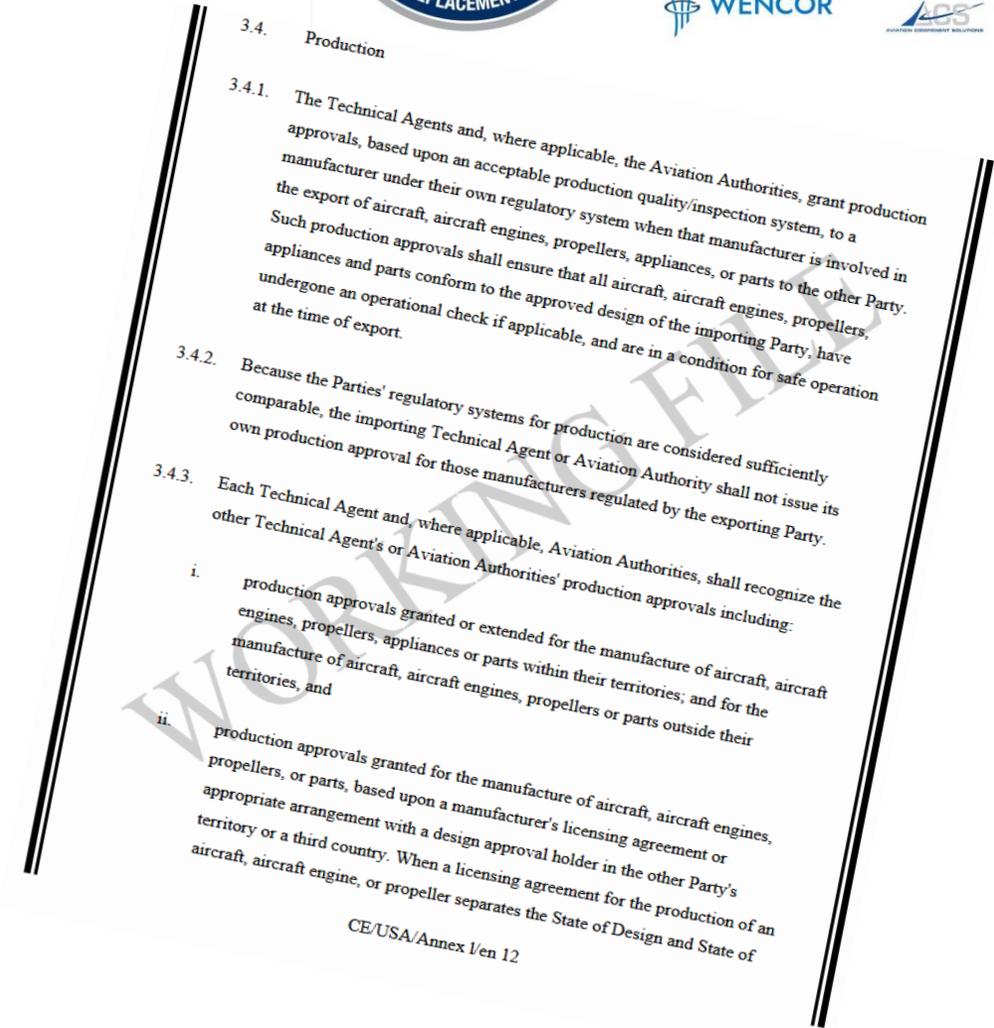


Certification Annex

- FAA and EASA (and the EU aviation authorities) shall recognize each others' production approvals including those for parts
- FAA and EASA (and the EU aviation authorities) shall reciprocally accept the other Party's certifications of airworthiness for all products



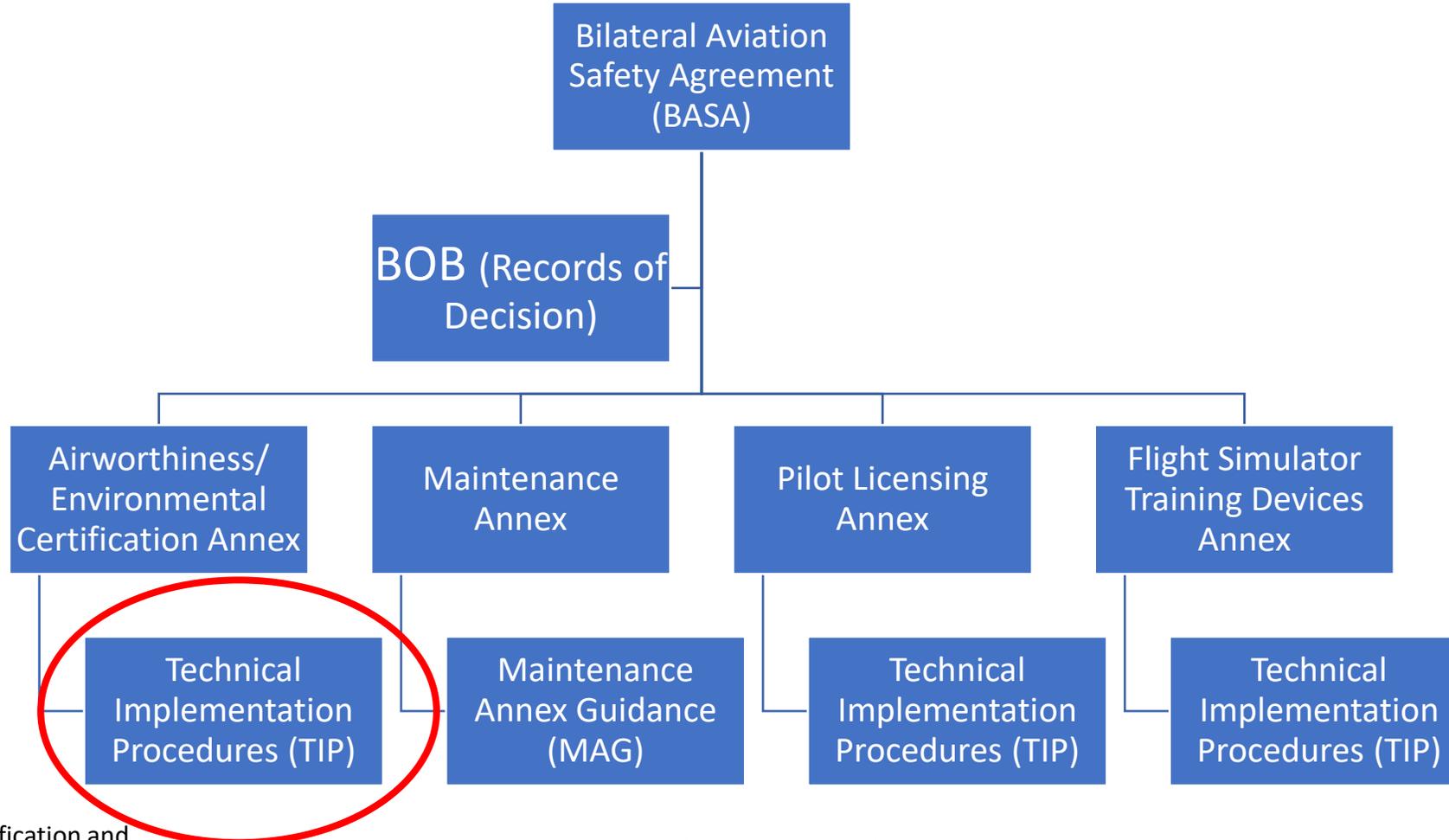
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The Agreements



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Technical Implementation Procedures



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New Modification and Replacement Parts

- § 7.10.1: Parts are to be accompanied by authorized release certificates (8130-3 or EASA Form 1)
- § 7.10.2: Importing authorities will accept the exporting authority's authorized release certificates

The part must have documentation

Technical Implementation Procedures



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New Modification and Replacement Parts

- § 7.10.1: Parts are to be accompanied by authorized release certificates (8130-3 or EASA Form 1)
- § 7.10.2: Importing authorities will accept the exporting authority's authorized release certificates
- § 7.11: PMA Parts must have one of these statements on the 8130-3:

The part must have a statement on the documentation

Technical Implementation Procedures



New Modification and Replacement Parts

- § 7.10.1: Parts are to be accompanied by authorized release certificates (8130-3 or EASA Form 1)
- § 7.10.2: Importing authorities will accept the exporting authority's authorized release certificates
- § 7.11: PMA Parts must have one of these statements on the 8130-3:
 - "This PMA part is not a critical component."
 - "Produced under licensing agreement from the holder of [INSERT TC or STC NUMBER]."

For non-critical PMA parts (99%+ of all PMAs)

For either critical or non-critical PMA parts

Technical Implementation Procedures



New Modification and Replacement Parts

- § 7.10.1: Parts are to be accompanied by authorized release certificates (8130-3 or EASA Form 1)
- § 7.10.2: Importing authorities will accept the exporting authority's authorized release certificates
- § 7.11: PMA Parts must have one of these statements on the 8130-3:
 - “This PMA part is not a critical component.”
 - “Produced under licensing agreement from the holder of [INSERT TC or STC NUMBER].”
 - “Produced by the holder of the EASA STC number [INSERT THE FULL REFERENCE OF THE EASA STC INCORPORATING THE PMA].”

Critical PMAs

Technical Implementation Procedures



New Modification and Replacement Parts

- There is a key limit in the text
- § 7.10.1: Parts are to be accompanied by authorized release certificates (8130-3 or EASA Form 1) **“as identified in paragraphs 2.2.4.2, 2.2.4.3, 2.3.4.2, and 2.3.4.3”**
- This is a limit on the acceptance scope

US Acceptance of Non-US-Manufactured Parts



- Acceptance is based on 14 C.F.R. § 21.502:
 - Source country is subject to a bilateral agreement
 - Article is marked according to US law
 - Source documentation meets the requirement of the bilateral agreement
- *Thus, a bilateral limit on documentation is an effective way to limit the scope of acceptance*

Technical Implementation Procedures



New Modification and Replacement Parts

- 2.2.4.2: EASA ETSOA Parts
- 2.2.4.3: Original PAH (e.g. TC/POA holder)
- 2.3.4.2 FAA TSOA Parts
- 2.3.4.3(a): Original PAH (e.g. TC/PC holder)
- 2.3.4.3(b): PMA
 - Must conform to one of the eligible conditions, consistent with the 8130-3

Technical Implementation Procedures



New Modification and Replacement Parts

- 2.2.4.2: EASA ETSOA Parts
- 2.2.4.3: Original PAH (e.g. TC/POA holder)
- 2.3.4.2 FAA TSOA Parts
- 2.3.4.3(a): Original PAH (e.g. TC/PC holder)
- 2.3.4.3(b): PMA
 - Must conform to one of the eligible conditions, consistent with the 8130-3
- **What is missing, here?**

What About EPA Parts?



- EU EPA Parts are outside the scope of acceptance
- We expected to see this addressed this year, but instead the June 2025 revision only focused on accepting parts that are no longer eligible for EASA Form 1:
 - Parts identified in the ICA or in CS-STAN as a part for which the consequences of a non-conformity has a negligible safety effect
 - Standard parts with manufacturer's Certificate of Conformity
 - Parts otherwise exempted from airworthiness approval

What About the Maintenance Annex Guidance?



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- MAG Section B, App'x 1, Para. 10.11.1.2: “For new components released by an EU PAH, a release must be documented on an EASA Form 1 as a new part.”
- MAG Section B, App'x 1, Para. 10.1 NOTE: “For new modification and replacement parts, TIP paragraph 7.10 provides detailed acceptance criteria. In case of version difference between the provisions of the TIP and the MAG, the TIP language takes precedence.”

Summary of EASA Standards for Accepting FAA-PMA



- EASA and its member states have explicitly agreed to accept FAA-PMA for installation on their registered aircraft as long as the FAA-PMA Article is accompanied by a properly completed 8130-3
- FAA has agreed to accept EU-produced aircraft parts from the original EU POA holder
- FAA has not (yet) agreed to accept EU-EPA when the sole release is from the EU-EPA holder

What Other Countries Accept PMA?



- First, FAA performed a survey of all ICAO members and found that they all accepted FAA-PMAs
- Second, here is a list of the countries with whom the FAA has bilateral agreements for the acceptance of FAA-PMA:
 - Argentina
 - Australia
 - Brazil
 - Canada
 - China
 - Iceland
 - India
 - Indonesia
 - Israel
 - Japan
 - Korea
 - Malaysia
 - Mexico
 - New Zealand
 - Norway
 - Russia
 - Saudi Arabia
 - Singapore
 - S. Africa
 - Switzerland
 - Taiwan
 - UK
 - The 27 members of the EU

What About DER Repairs?

- Can I use an FAA DER repair on an aircraft registered in an EU member nation?
- Is the data recognized by EASA?
- Does the fact that it was approved by a DER matter?
- Are there limitations?



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U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

DETERMINATION OF COMPLIANCE WITH AIRWORTHINESS STANDARDS

1. PROJECT NO. (if applicable)

2. MAKE: Boeing 3. MODEL NO.: 737-800 4. TYPE (Aircraft, Engine, Propeller, Actuator, etc.): Aircraft

5. NAME OF APPLICANT: Repair Design Applicant

6. IN SUPPORT OF: TC/ATC STC PMA Major Repair Major Alteration Other (Explain)

7. IDENTIFICATION: Data Approval and Process Approval by RS-DER

8. TITLE OF DATA: Report: Demonstration of flammability compliance
Applicant's repair process specification 001

9. APPLICABLE REQUIREMENTS (List specific sections and amendment levels): 25.853

10. FAA DESIGNEE APPROVAL - As directed by the Administrator and in accordance with the conditions and limitations of authorization under 14 CFR, Part 183, data listed above, and on attached sheets numbered 25.853

APPROVE the data above RECOMMEND APPROVAL of the data above

FOR MAJOR REPAIR OR MAJOR ALTERATION ONLY - Other data approvals ARE REQUIRED ARE NOT REQUIRED

11. DER/CDA NUMBER: [Blank]

12. PRINTED NAME: Josephine Designee

13. TECHNICAL DISCIPLINE: [Blank]

14. SIGNATURE: sig

15. DATE: 11/18/2025

16. DATE: 11/18/2025

17. PRINTED NAME/FAA OFFICE: [Blank]

18. TECHNICAL DISCIPLINE: [Blank]

19. SIGNATURE: [Blank]

20. DATE: [Blank]

FAA Form 8110-3 (09/20) Supersedes Previous Edition

What About DER Repairs?



2025 MARPA EVENT SPONSORS



- Can I use an FAA DER repair on an aircraft registered in an EU member nation?
- **Is the data recognized by EASA?**
- Does the fact that it was approved by a DER matter?
- Are there limitations?

2.3.2 EASA recognizes, as within the scope of this agreement, the following FAA Approved Design Data:

- FAA-approved design data used in the support of repairs and alterations (except for alterations on critical components):
 - (a) U.S. SoD products/articles;
 - (b) EU SoD products/articles; or
 - (c) A third country SoD product/article, when both the FAA and EASA have issued a type design approval for the product [*e.g.* Embraer 190]

What About DER Repairs?



2025 MARPA EVENT SPONSORS



- Can I use an FAA DER repair on an aircraft registered in an EU member nation?
- Is the data recognized by EASA?
- **Does the fact that it was approved by a DER matter?**
- Are there limitations?
- TIP section 3.3.5.1(b) explicitly authorizes acceptance of design data approved by a DER
- The data approval should be documented on:
 - FAA Form 8110-3
 - FAA Form 8100-9
 - FAA Form 337 or
 - A signed cover page of a repair specification

What About DER Repairs?



- Can I use an FAA DER repair on an aircraft registered in an EU member nation?
- Is the data recognized by EASA?
- Does the fact that it was approved by a DER matter?
- **Are there limitations?**
- Repair designs requiring the production of new parts that would constitute a design change = NOT eligible for Acceptance
- It is permissible to fabricate parts that will be used in repairs of individual products or articles

What About EU Repairs?



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- Note: *FAA also recognizes EASA-approved design data used in support of repairs*
- FAA accepts EASA approved design data that is approved under EASA Part 21 Subpart M
- In both directions, the repair data from the first authority is accepted by the second as “approved” and does not require any additional application to, nor findings by, the second authority

Thank You



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Closing Remarks

Resources:

IATA - [Guidance Material and Best Practices for Alternate Parts \(PMA\) and Approved \(non-OEM\) Repairs \(DER\)](#)

IATA – [CFM & RR agreement on the use of non-OEM parts](#)

MARPA – [The airline guide to PMA](#)

IATA - [Guidance Material and Best Practices for Aircraft Leases](#)

FAA List of PMAs - [Dynamic Regulatory System \(DRS\)](#)

IATA - [MRO SmartHub](#)

Upcoming Events:

Q2 2026 – IATA Approved Alternate Solutions Workshop in Montreal, Canada

- Forum focusing on airline use cases & best practices

Closing Remarks

Thank you for your participation!

Contact Information

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