

Suspected Unapproved Parts



WHAT WILL WE TALK ABOUT?

- →3 type of parts in the aviation system
- → Why should we worry about SUP's
- → What kind of parts are being found
- → Where do they come from
- → What is the solution to stopping them
- → What can WE do about them



WE HAVE TO DEAL WITH 3 TYPES OF PARTS:

Approved,

Unapproved,

Or

Suspected Unapproved?



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WHAT IS AN "APPROVED PART?"

"Approved part" is a part that has been:

Properly Designed

Properly Produced

Properly Maintained

Properly Documented



"APPROVED PART"

The term "approved part," in quotations, is a colloquial term that means a part that has been designed & produced in accordance with Part 21, maintained in accordance with Parts 145, and meets applicable design standards, and is in a condition for safe operation and has documents to show this.

A.C. 21-29B Par 4



WHAT IS AN UNAPPROVED PART?

An unapproved part is a part or material that does not meet any ONE of the 4 requirements of an "Approved Part."

Properly Designed

Properly Produced

Properly Maintained

Properly Documented



THEN WHAT IS A SUSPECTED UNAPPROVED PART?





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Indicators of SUPs have included: a different finish, size, color, improper (or lack of) identification, incomplete or altered documentation and many others.

AC 21-29 Par 4



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The problem is - we don't know.

It could take Costly & Extensive testing and evaluation to make this determination.



Why should I worry?



WHY SHOULD I WORRY?

- →Loss of Life
- → Flight Safety
- → Structural/Operational Integrity
- Manufacturer's/Operator's, Repair Stations And Your Reputations
- →Lost Customers & Future Business
- →Recall Costs
- → Rework Costs
- → Legal Action





The airworthiness of aeronautical products is in question if:

The design, manufacture, repair and or quality of the parts and documents are unknown.

→ Number of SUP Cases from 1995 to 2000 = 1860

 \rightarrow Number of Cases with Unapproved Parts = 478



SUP FACTS

→There are people and facilities who are using you and your Certificates as a way to make a living by introducing Unapproved Parts into the aviation system.

When YOU accept and install these parts YOU have taken on the responsibility for the Airworthiness of the Parts and Products involved.



WHAT KIND OF PARTS ARE BEING FOUND?

→Lets look at a small sample of Unapproved parts we are finding in the aviation system as we speak.

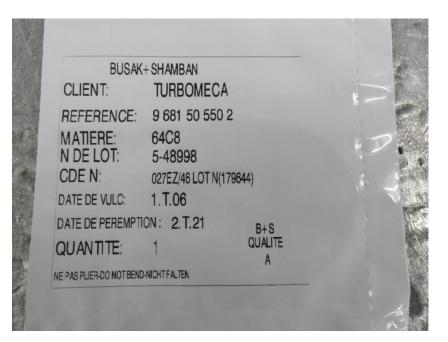
→Most of these parts were already into the system and installed or in the process of being installed when found.



COUNTERFEIT O'RINGS – REAL CASE IN MALAYSIA

APPROVED

UNAPPROVED







BEARING SPACERS



TURBINE WHEELS

SOLD AS NEW WITH TWISTED SPLINE AND INSTRUCTIONS TO SEAT WITH HAMMER AND BLOCK OF WOOD.



TURBINE WHEELS

AUTOMOTIVE BEARINGS USED IN PLACE OF AVIATION

QUALITY

GREASE SEAL MAY BE AN INDICATOR IN THE DIFFERENCE



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What can we do?



WHAT IS THE SOLUTION?

→ THE SOLUTION TO THE PROBLEM OF SUSPECTED UNAPPROVED PARTS IS:

- FOR EVERYONE TO WORK TOGETHER TO DETECT AND REMOVE THEM FROM THE GLOBAL AVIATION SYSTEM
- MECHANICS, AUTHORIZED INSPECTORS, INDUSTRY, SUPPLIERS, DISTRIBUTORS, ETC.



We must all work together:

To promote the highest level of aviation safety by eliminating the potential safety risk posed by the entry of "unapproved parts" in the Global aviation community.



SO WHAT CAN YOU DO

→ KNOW YOUR SUPPLIERS

→ ESTABLISH SUPPLIER SURVEILANCE

→ REPORT SUPS to the Civil aviation authorities

→ENSURE YOUR SUPPLIERS: ARE RATED, HAVE PROCEDURES, QUALIFIED PEOPLE AND A QUALITY SYSTEM

→TRACK ACCEPTANCE DATA FOR REJECTS

→ ENHANCE TRAINING FOR RECEIVING & SUP AWARENESS



→ ENHANCE ORDERING & RECEIVING INSPECTIONS AS A TEAM

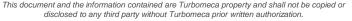
→INSPECT PARTS & DOCUMENTS FOR AIRWORTHINESS

→ REQUEST COPIES OF WORK ORDERS FOR YOUR RECORDS

→ SEGREGATE QUESTIONABLE PARTS & MATERIALS

→ MUTILATE YOUR UNSALVAGEABLE PARTS & MATERIALS







WHO CAN HELP RESOLVE THE PROBLEM

→Everyone working together can resolve the problem of UNSAFE parts in the aviation system.

→We also have some help in the form of Law Enforcement Authorities and a NEW TOOL to help all of us fight back.



SUP LAW: PENALTIES

- (1) AVIATION QUALITY If the offense relates to the aviation quality of a part and the part is installed in an aircraft or space vehicle, a fine of not more than \$500,000, imprisonment for not more than 15 years, or both.
- (2) FAILURE TO OPERATE AS REPRESENTED If, by reason of the failure of the part to operate as represented, the part to which the offense is related is the proximate cause of a malfunction or failure that results in serious bodily injury (as defined in section 1365), a fine of not more than \$1,000,000, imprisonment for not more than 20 years, or both.
- (3) FAILURE RESULTING IN DEATH If, by reason of the failure of the part to operate as represented, the part to which the offense is related is the proximate cause of a malfunction or failure that results in the death of any person, a fine of not more than \$1,000,000, imprisonment for any term of years or life, or both.
- (4) OTHER CIRCUMSTANCES In the case of an offense under subsection (a) not described in paragraph (1), (2), or (3) of this subsection, a fine under this title, imprisonment for not more than 10 years, or both.
- (5) ORGANIZATIONS If the offense is committed by an organization, a fine of not more than:
 - (A) \$10,000,000 in the case of an offense described in paragraph (1) or (4); and
 - (B) \$20,000,000 in the case of an offense described in paragraph (2) or (3).



- → WE ARE PROFESSIONALS THAT SHOULD BE WORKING TO PROVIDE A SAFE MODE OF TRANSPORTATION BASED ON OUR TRAINING AND EXPERIENCE. THIS IS PROJECTED TO THEM THROUGH OUR DECISIONS AND ACTIONS.
- → THEY TRUST US WITH THEIR LIVES AND, THE LIVES OF THEIR LOVED ONES EVERYDAY BY CHOOSING TO FLY.
- → STAND UP TO THAT TRUST, THIS IS YOUR INDUSTRY, HELP TO KEEP IT SAFE.



FINAL CONSIDERATIONS

SUSPECT, INVESTIGATE;

AVIATION SAFETY DEPENDS ON

YOU !!!

THE WORK YOU DO, AND THE DECISIONS YOU MAKE EVERYDAY, IMPACTS THOUSANDS OF LIVES

MAKE EVERYDAY A SAFE ONE



THANK YOU

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