



U.S. Department
of Transportation
**Federal Aviation
Administration**

**Transport Airplane Directorate
Van Nuys - Manufacturing
Inspection District Office**
7120 Hayvenhurst Ave. Suite 100
Van Nuys, California 91406-3823

February 19, 2004

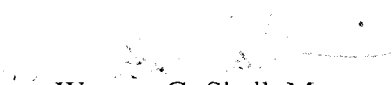
Quest Aviation Supply, Inc.
6747 Odessa Ave. Suite 200
Van Nuys, CA 91406

**FEDERAL AVIATION ADMINISTRATION
PARTS MANUFACTURER APPROVAL**

In accordance with the provisions of 14 CFR Part 21, Subpart K, we have found that the design data based on License Agreement, submitted by Quest Aviation Supply, Inc., with letter dated November 10, 2003, meets the airworthiness requirements of the regulations applicable to the products on which the parts are to be installed. Additionally, it has been determined that Quest Aviation Supply, Inc., has established the fabrication inspection system required by Section 21.303(h) at 6747 Odessa Ave. Suite 200, Van Nuys, CA. Accordingly, Parts Manufacturer Approval is hereby granted for production of the replacement parts listed in the enclosed Supplement No. 14 in conformity with the enclosed FAA approved design data.

You are reminded that the provisions of the Federal Aviation Regulations, noted in our PMA letter of approval dated June 5, 1998, also apply to the enclosed PMA Listing-Supplement No. 14. The enclosed Supplement should be retained with the original PMA Letter as evidence of approval to produce the parts concerned. Please sign and return the attached acknowledgment form to the undersigned.

Sincerely,


Wyman G. Shell, Manager
Van Nuys Manufacturing Inspection District Office

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

QUEST AVIATION SUPPLY, INC.
6747 ODESSA AVENUE
VAN NUYS, CALIFORNIA 91406

PMA NO: PQ2220NM
SUPPLEMENT NO: 14
DATE: FEBRUARY 19, 2004

PART NAME	PART NUMBER	APPROVED REPLACEMENT FOR PART NUMBER	APPROVAL BASIS AND APPROVED DESIGN DATA	MAKE ELIGIBILITY	MODEL ELIGIBILITY
Wiper, Ball Screw	43763150Q	43763150Q	Identity per 14 CFR § 21.303; Licensing Agreement between QAS and DER Aviation File No. 1, dated 02/22/99 <u>DWG No:</u> DAV3001 <u>Rev:</u> C <u>Date:</u> 05/04/00 or later FAA approved revisions	General Electric	CF6-45A/-45A2
Shaft, Shoulder Output	3238417-1Q	3238417-1Q	Identity per 14 CFR § 21.303; Licensing Agreement between QAS and DER Aviation File No. 1, dated 02/22/99 <u>DWG No:</u> DAV4000 <u>Rev:</u> N/C <u>Date:</u> 02/25/98 or later FAA approved revisions	General Electric	CF6-45A/-45A2
Housing, Screw Assembly	43764300-4Q	43764300-4Q	Identity per 14 CFR § 21.303; Licensing Agreement between QAS and DER Aviation File No. 1, dated 02/22/99 <u>DWG No:</u> DAV3002 <u>Rev:</u> N/C <u>Date:</u> 08/04/98 or later FAA approved revisions	General Electric	CF6-45A/-45A2
Housing, Screw Assembly	43764300-5Q	43764300-5Q	Identity per 14 CFR § 21.303; Licensing Agreement between QAS and DER Aviation File No. 1, dated 02/22/99 <u>DWG No:</u> DAV3002 <u>Rev:</u> N/C <u>Date:</u> 08/04/98 or later FAA approved revisions	General Electric	CF6-45A/-45A2
Return, Ball	43764130-1Q	43764130-1Q	Identity per 14 CFR § 21.303; Licensing Agreement between QAS and DER Aviation File No. 1, dated 02/22/99 <u>DWG No:</u> DAV3010 <u>Rev:</u> A <u>Date:</u> 10/15/98 or later FAA approved revisions	General Electric	CF6-45A/-45A2

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

QUEST AVIATION SUPPLY, INC.
6747 ODESSA AVENUE
VAN NUYS, CALIFORNIA 91406

PMA NO: PQ2220NM
SUPPLEMENT NO: 14
DATE: FEBRUARY 19, 2004

PART NAME	PART NUMBER	APPROVED REPLACEMENT FOR PART NUMBER	APPROVAL BASIS AND APPROVED DESIGN DATA	MAKE ELIGIBILITY	MODEL ELIGIBILITY
Clamp, Return Tube	43763140-2Q	43763140-2Q	Identity per 14 CFR § 21.303; Licensing Agreement between QAS and DER Aviation File No. 1, dated 02/22/99 <u>DWG No:</u> DAV3011 <u>Rev:</u> N/C <u>Date:</u> 08/27/98 or later FAA approved revisions	General Electric	CF6-45A/-45A2
Shaft, Shoulder Output	3238416-1Q	3238416-1Q	Identity per 14 CFR § 21.303; Licensing Agreement between QAS and DER Aviation File No. 1, dated 02/22/99 <u>DWG No:</u> DAV4001 <u>Rev:</u> N/C <u>Date:</u> 02/25/98 or later FAA approved revisions	General Electric	CF6-45A/-45A2

-----**END OF LISTING**-----

NOTE: Minor design changes (reference 14 CFR part 21 §§ 21.93 and 21.95) must be submitted in a manner as determined by the ACO. Major Design changes (reference 14 CFR part 21 §§ 21.93 and 21.97) to drawings and specifications are to be handled in the same manner as that for an original FAA-PMA.

Thomas A. Enyart

 Thomas A. Enyart
 Manager, Propulsion Branch
 Los Angeles Aircraft Certification Office

Wyman G. Shell

 Wyman G. Shell
 Manager, Van Nuys Manufacturing
 Inspection District Office

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

Quest Aviation Supply, Inc.
6747 Odessa Avenue, Suite 200
Van Nuys, CA 91406

PMA NO: PQ2220NM
SUPPLEMENT NO: 23
DATE: FEBRUARY 1, 2008
REVISED: DECEMBER 2, 2010

Part Name	Part Number	Approved Replacement for Part Number	Approval Basis and Approved Design Data	Make Eligibility	Model Eligibility
Wiper, Ball Screw	43763150Q	43763150	Test & Computation per 14 CFR § 21.303 <u>DWG No:</u> DAV3001 <u>Rev:</u> C <u>Date:</u> 5/4/2000, or later FAA approved revisions	General Electric	CF6-6D, -6D1, -6D1A, -6K, -6K2, -45A, -45A2, -50A, -50C, -50CA, -50C1, -50C2, -50C2B, -50C2D, -50E, -50E1, -50E2, -50E2B, -80A, -80A1, -80A2, -80A3, -80C2A1, -80C2A2, -80C2A3, -80C2A5, -80C2A5F, -80C2A8, -80C2B1, -80C2B2, -80C2B4, -80C2B6, -80C2B1F, -80C2B1F1, -80C2B1F2, -80C2B2F, -80C2B3F, -80C2B4F, -80C2B6F, -80C2B7F, -80C2D1F
Shaft, Shoulder Output	3238417-1Q	3238417-1	Test & Computation per 14 CFR § 21.303 <u>DWG No:</u> DAV4000 <u>Rev:</u> NC-001 <u>Date:</u> 11/5/2001, or later FAA approved revisions	General Electric	CF6-6D, -6D1, -6D1A, -6K, -6K2, -45A, -45A2, -50A, -50C, -50CA, -50C1, -50C2, -50C2B, -50C2D, -50E, -50E1, -50E2, -50E2B, -80A, -80A1, -80A2, -80A3, -80C2A1, -80C2A2, -80C2A3, -80C2A5, -80C2A5F, -80C2A8, -80C2B1, -80C2B2, -80C2B4, -80C2B6, -80C2B1F, -80C2B1F1, -80C2B1F2, -80C2B2F, -80C2B3F, -80C2B4F, -80C2B6F, -80C2B7F, -80C2D1F
Housing, Screw Assembly	43764300-4Q 43764300-5Q	43764300-4 43764300-5	Test & Computation Per 14 CFR § 21.303 <u>DWG No:</u> DAV3002 <u>Rev:</u> A <u>Date:</u> 7/22/2004, or later FAA approved revisions	General Electric	CF6-6D, -6D1, -6D1A, -6K, -6K2, -45A, -45A2, -50A, -50C, -50CA, -50C1, -50C2, -50C2B, -50C2D, -50E, -50E1, -50E2, -50E2B, -80A, -80A1, -80A2, -80A3, -80C2A1, -80C2A2, -80C2A3, -80C2A5, -80C2A5F, -80C2A8, -80C2B1, -80C2B2, -80C2B4, -80C2B6, -80C2B1F, -80C2B1F1, -80C2B1F2, -80C2B2F, -80C2B3F, -80C2B4F, -80C2B6F, -80C2B7F, -80C2D1F

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

Quest Aviation Supply, Inc.
6747 Odessa Avenue, Suite 200
Van Nuys, CA 91406

PMA NO: PQ2220NM
SUPPLEMENT NO: 23
DATE: FEBRUARY 1, 2008
REVISED: DECEMBER 2, 2010

Part Name	Part Number	Approved Replacement for Part Number	Approval Basis and Approved Design Data	Make Eligibility	Model Eligibility
Return, Ball	43764130-1Q	43764130-1	Test & Computation Per 14 CFR § 21.303 <u>DWG No:</u> DAV3010 <u>Rev:</u> A <u>Date:</u> 10/15/1998, or later FAA approved revisions	General Electric	CF6-6D, -6D1, -6D1A, -6K, -6K2, -45A, -45A2, -50A, -50C, -50CA, -50C1, -50C2, -50C2B, -50C2D, -50E, -50E1, -50E2, -50E2B, -80A, -80A1, -80A2, -80A3, -80C2A1, -80C2A2, -80C2A3, -80C2A5, -80C2A5F, -80C2A8, -80C2B1, -80C2B2, -80C2B4, -80C2B6, -80C2B1F, -80C2B1F1, -80C2B1F2, -80C2B2F, -80C2B3F, -80C2B4F, -80C2B6F, -80C2B7F, -80C2D1F
Clamp, Return Tube	43763140-1Q	43763140-1	Test & Computation Per 14 CFR § 21.303 <u>DWG No:</u> 43763140-1Q <u>Rev:</u> B <u>Date:</u> 11/25/2009, or later FAA approved revisions	General Electric	CF6-6D, -6D1, -6D1A, -6K, -6K2, -45A, -45A2, -50A, -50C, -50CA, -50C1, -50C2, -50C2B, -50C2D, -50E, -50E1, -50E2, -50E2B, -80A, -80A1, -80A2, -80A3, -80C2A1, -80C2A2, -80C2A3, -80C2A5, -80C2A5F, -80C2A8, -80C2B1, -80C2B2, -80C2B4, -80C2B6, -80C2B1F, -80C2B1F1, -80C2B1F2, -80C2B2F, -80C2B3F, -80C2B4F, -80C2B6F, -80C2B7F, -80C2D1F

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

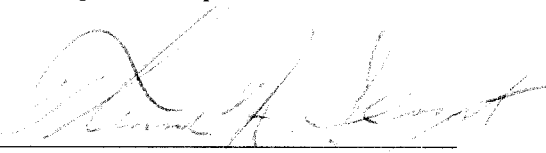
Quest Aviation Supply, Inc.
6747 Odessa Avenue, Suite 200
Van Nuys, CA 91406

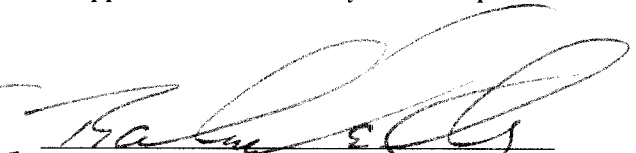
PMA NO: PQ2220NM
SUPPLEMENT NO: 23
DATE: FEBRUARY 1, 2008
REVISED: DECEMBER 2, 2010

Part Name	Part Number	Approved Replacement for Part Number	Approval Basis and Approved Design Data	Make Eligibility	Model Eligibility
Shaft, Shoulder Output	3238416-1Q	3238416-1	Test & Computation Per 14 CFR § 21.303 DWG No: DAV4001 Rev: NC-002 Date: 11/5/2001, or later FAA approved revisions	General Electric	CF6-6D, -6D1, -6D1A, -6K, -6K2, -45A, -45A2, -50A, -50C, -50CA, -50C1, -50C2, -50C2B, -50C2D, -50E, -50E1, -50E2, -50E2B, -80A, -80A1, -80A2, -80A3, -80C2A1, -80C2A2, -80C2A3, -80C2A5, -80C2A5F, -80C2A8, -80C2B1, -80C2B2, -80C2B4, -80C2B6, -80C2B1F, -80C2B1F1, -80C2B1F2, -80C2B2F, -80C2B3F, -80C2B4F, -80C2B6F, -80C2B7F, -80C2D1F, -80E1A1, -80E1A2, 80E1A4

NOTE:

- 1) Provide minor design changes in a manner as determined by the ACO. Handle major design changes to drawings and specifications in the same manner as that for an original FAA-PMA.
- 2) The FAA approved ICA for the above parts with their designs. These ICA may refer to those of the respective parts from the holders of type certificates. Otherwise, provide supplemental ICA for differences in the replacement parts. Make referral statements or supplemental ICA readily available per 14 CFR 21.50


Thomas A. Enyart,
Manager, Propulsion Branch
Los Angeles Aircraft Certification Office


Christopher B. Bergen
Manager, Van Nuys Manufacturing Inspection
District Office



U.S. Department
of Transportation
**Federal Aviation
Administration**

**Transport Airplane Directorate
Van Nuys - Manufacturing
Inspection District Office
7120 Hayvenhurst Ave. Suite 100
Van Nuys, California 91406-3823**

March 1, 1999

Quest Aviation Supply, Inc.
Attn: Bill Lally
6747 Odessa Ave. Suite 200
Van Nuys, CA 91406

**FEDERAL AVIATION ADMINISTRATION
PARTS MANUFACTURER APPROVAL**

In accordance with the provisions of 14 CFR Part 21, Subpart K, we have found that the design data submitted by Quest Aviation Supply, Inc., with letter dated February 22, 1999, meets the airworthiness requirements of the regulations applicable to the products on which the parts are to be installed. Additionally, it has been determined that Quest Aviation Supply, Inc., has established the fabrication inspection system required by Section 21.303(h) at 6747 Odessa Ave. Suite 200, Van Nuys, CA. Accordingly, Parts Manufacturer Approval is hereby granted for production of the replacement parts listed in the enclosed Supplement No. 3 in conformity with the enclosed FAA approved design data.

You are reminded that the provisions of the Federal Aviation Regulations, noted in our PMA letter of approval dated June 5, 1998, also apply to the enclosed PMA Listing-Supplement No. 3. The enclosed Supplement should be retained with the original PMA Letter as evidence of approval to produce the parts concerned. Please sign and return the attached acknowledgment form to the undersigned.

Sincerely,

A handwritten signature in cursive script, appearing to read "Shea Sullivan".

Shea Sullivan
Aviation Safety Inspector, Van Nuys
Manufacturing Inspection District Office

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

QUEST AVIATION SUPPLY, INC.
6747 ODESSA, AVE. SUITE 200
VAN NUYS, CA 91406

PMA NO.: PQ2220NM
SUPPLEMENT NO.: 3
DATE : MARCH 1, 1999

<u>NAME AND PART NO.</u>	<u>APPROVED REPLACEMENT FOR</u>	<u>APPROVAL BASIS & APPROVED DESIGN DATA</u>	<u>INSTALLATION ELIGIBILITY</u>
<u>Part Name:</u> Wiper, Ballscrew P/N: 43763150Q	DER Aviation P/N: 43763150Q	Identicality per 14 CFR §21.303, Licensing Agreement between Quest Aviation and DER Aviation File No. Licensing Agreement No. 1 dated 02-22-99	General Electric Engine Model(s): CF6-6D, -6D1, -6D1A, -6K, -6K2, -50A, -50C, -50CA, -50C1, -50C2, -50C2B, -50C2D, -50E, -50E1, -50E2, -50E2B, -80A, -80A1, -80A2, -80A3, -80C2A1, -80C2A2, -80C2A3, -80C2A5, -80C2A5F, -80C2A8, -80C2B1, -80C2B2, -80C2B4, -80C2B6, -80C2B1F, -80C2B1F1, -80C2B1F2, -80C2B2F, -80C2B3F, -80C2B4F, -80C2B6F, -80C2B7F, -80C2D1F
<u>Part Name:</u> Shaft, Shoulder Output P/N: 3238417-1Q	DER Aviation P/N: 3238417-1Q	"	"
<u>Part Name:</u> Housing, Screw Assy. P/N: 43764300-4Q P/N: 43764300-5Q	DER Aviation P/N: 43764300-4Q P/N: 43764300-5Q	"	"
<u>Part Name:</u> Return, Ball P/N: 43764130-1Q	DER Aviation P/N: 43764130-1Q	"	"
<u>Part Name:</u> Clamp, Return Tube P/N: 43763140-2Q	DER Aviation P/N: 43763140-2Q	"	"

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

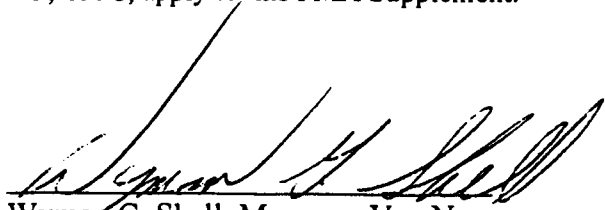
QUEST AVIATION SUPPLY, INC.
6747 ODESSA, AVE. SUITE 200
VAN NUYS, CA 91406

PMA NO.: PQ2220NM
SUPPLEMENT NO.: 3
DATE : MARCH 1, 1999

<u>NAME AND PART NO.</u>	<u>APPROVED REPLACEMENT FOR</u>	<u>APPROVAL BASIS & APPROVED DESIGN DATA</u>	<u>INSTALLATION ELIGIBILITY</u>
Part Name: Shaft, Shoulder Output P/N: 3238416-1Q	DER Aviation P/N: 3238416-1Q	Identity per 14 CFR §21.303, Licensing Agreement between Quest Aviation and DER Aviation File No. Licensing Agreement No. 1 dated 02-22-99	General Electric Engine Model(s): CF6-6D, -6D1, -6D1A, -6K, -6K2, -50A, -50C, -50CA, -50C1, -50C2, -50C2B, -50C2D, -50E, -50E1, -50E2, -50E2B, -80A, -80A1, -80A2, -80A3, -80C2A1, -80C2A2, -80C2A3, -80C2A5, -80C2A5F, -80C2A8, -80C2B1, -80C2B2, -80C2B4, -80C2B6, -80C2B1F, -80C2B1F2, -80C2B2F, -80C2B3F, -80C2B4F, -80C2B6F, -80C2B7F, -80C2D1F -80EA1, -80EA2, -80EA4

-----**END OF LISTING**-----

NOTE: The procedures that have been accepted by the type certificate or TSOA holder and their cognizant FAA Aircraft Certification Office, for minor changes to original parts used on type certificated products, are also acceptable for incorporating the same minor changes on identical FAA-PMA replacement parts. The FAA-PMA holder shall be able to show traceability relating to the TC, STC, or TSOA holder on all minor changes incorporated by this procedure. When these procedures are no longer applicable because of completion of the production contract or termination of the licensing agreement, all subsequent minor design changes to the PMA parts must be submitted in a manner as determined by the ACO. Major design changes (reference 14 CFR Part 21 §§ 21.93 and 21.97) to drawings and specifications are to be handled in the same manner as that for an original FAA-PMA. . The provisions of the Federal Aviation Regulations, noted in your PMA letter of approval dated June 5, 1998, apply to this PMA Supplement.



Wyman G. Shell, Manager, Van Nuys
Manufacturing Inspection District Office

3238416.SUP

WORD 6.0

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

DER Aviation
1150 Academy Park Loop, Suite 109
Colorado Springs, CO 80910

PMA No. 202232NM
Supplement No. 2
Date: Aug 10, 1998

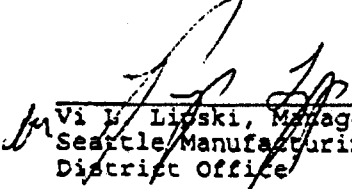
<u>Name and Part No.</u>	<u>Approved Replacement For</u>	<u>Approval Basis and Approved Design Data</u>	<u>Installation Eligibility</u>
<u>Part Name:</u> Shaft, Shoulder Output <u>P/N: 3238416-1Q</u>	General Electric <u>P/N: 3238416-1</u>	Test and Computations per 14 CFR § 21.303 <u>Dwg. No. : DAV4001</u> <u>Rev: N/C</u> <u>Date: 02/25/98</u> or later FAA Approved revisions	General Electric Engine Models: CF6-6D/-6D1/-6D1A/-6K/-6K2. CF6-50A/-50C/-50CA/ -50C1/-50C2/-50C2B/ -50C2D/-50E/-50E1/-50E2/-50E2B. CF6-80A/-80A1/-80A2/ -80A3/-80C2A1/-80C2A2/-80C2A3. CF6-80C2A5/-80C2A5F/ -80C2A8/-80C2B1/-80C2B2/-80C2B4/-80C2B6/ -80C2B1F/-80C2B1F1/ -80C2B1F2/-80C2B2F/ -80C2B3F/-80C2B4F/ -80C2B6F/-80C2B7F/ -80C2D1F. CF6-80EA1/-80EA2/-80EA4.

-----End of Listing-----

Note: Minor design changes (reference 14 CFR Part 21 § 21.93 and 21.95) must be submitted in a manner as determined by the ACO. Major design changes (reference 14 CFR Part 21 § 21.93 and 21.97) to drawings and specifications are to be handled in the same manner as that for an original FAA -PMA



Ronald J. May, Manager
Denver Aircraft Certification
Office



Vi E. Lipski, Manager
Seattle Manufacturing Inspection
District Office