



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

Small Airplane Directorate  
Atlanta Manufacturing Inspection  
District Office  
One Crown Center  
1895 Phoenix Blvd., Suite 475  
Atlanta, GA 30349

June 9, 1998

Project No. PQ1469CE

Mr. Rick Rathbun  
Project Engineer  
DEC Technologies, Inc.  
501 Industrial Park Road  
P.O. Box 583  
Piney Flats, TN 37686

Dear Mr. Rathbun:

The statements dated June 8, 1998, certifying that DEC Technologies, Inc. has established a fabrication inspection system that meets the requirements of FAR 21.303(h) for the parts listed are accepted.

Transmitted herein is Production Approval Listing, Supplement No. 45, dated June 9, 1998, which grants approval for the production of the parts listed thereon, under the same conditions and limitations included in the Approval Letter of October 17, 1995.

Should you have any questions regarding this matter, you may wish to direct them to Mr. Nate Watts, of the Nashville MISO at (615) 781-5441.

Sincerely,

Jim Reeves  
Manager, Atlanta Manufacturing  
Inspection District Office

Enclosure

PARTS MANUFACTURER APPROVAL NO. PQ1469CE

PRODUCTION APPROVAL LISTING - SUPPLEMENT NO. 45

DATED JUNE 9, 1998

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

DEC Technologies, Inc.  
501 Industrial Park Road  
Piney Flats, Tennessee 37686

<u>Part Name</u>	<u>Part Number</u>	<u>Approved Replacement For</u>	<u>FAA Approval Basis &amp; Approved Design Data</u>	<u>Installation Eligibility</u>	<u>Model</u>
Nozzle Segment, Turbine	DEC31-053-501	Airesearch P/N 3846484-3	Identity IAW FAR 21.303(c)(4), Dwg. DEC31-053, Rev. A, dated 04/13/98, or Later FAA Approval	Boeing	727 and 737
Nozzle Segment, Turbine	DEC31-053-503	Airesearch P/N 3846484-4	Identity IAW FAR 21.303(c)(4), Dwg. DEC31-053, Rev. A, dated 04/13/98, or Later FAA Approval	Boeing	727 and 737
Nozzle, Turbine, Segmented	DEC31-054-501	Airesearch P/N 3601669-1	Identity IAW FAR 21.303(c)(4), Dwg. DEC31-054, Rev. A, dated 04/13/98, or Later FAA Approval	Boeing McDonnell Douglas	727 and 737 DC-9 and MD-80
Nozzle, Turbine, Segmented	DEC31-054-503	Airesearch P/N 3601669-2	Identity IAW FAR 21.303(c)(4), Dwg. DEC31-054, Rev. A, dated 04/13/98, or Later FAA Approval	Boeing McDonnell Douglas	727 and 737 DC-9 and MD-80
Nozzle, Turbine, Segmented	DEC31-054-505	Airesearch P/N 3601669-7	Identity IAW FAR 21.303(c)(4), Dwg. DEC31-054, Rev. A, dated 04/13/98, or Later FAA Approval	Boeing McDonnell Douglas	727 DC-9 and MD-80
Nozzle, Turbine, Segmented	DEC31-054-507	Airesearch P/N 3601669-8	Identity IAW FAR 21.303(c)(4), Dwg. DEC31-054, Rev. A, dated 04/13/98, or Later FAA Approval	Boeing McDonnell Douglas	727 DC-9 and MD-80

<u>Part Name</u>	<u>Part Number</u>	<u>Approved Replacement For</u>	<u>FAA Approval Basis &amp; Approved Design Data</u>	<u>Installation Eligibility</u>	<u>Model</u>
Plate Set, Metering, Matched	DEC31-096-505	Airesearch P/N 3601196-3	Identicality IAW FAR 21.303(c)(4), Dwg. DEC31-096, Rev. A, dated 04/13/98, or Later FAA Approval	Boeing  McDonnell Douglas	737  DC-9 and MD-80
Bushing, Gimbal	DEC31-136-501	Airesearch P/N 974695-17	Identicality IAW FAR 21.303(c)(4), Dwg. DEC31-136, No Rev., dated 03/18/98, or Later FAA Approval	Boeing  McDonnell Douglas  General Electric	747  DC-10  CF6-6
Bushing, Gimbal	DEC31-136-503	Airesearch P/N 974695-19	Identicality IAW FAR 21.303(c)(4), Dwg. DEC31-136, No Rev., dated 03/18/98, or Later FAA Approval	Boeing  McDonnell Douglas  General Electric	747  DC-10  CF6-6
Nut, Plain, Round	DEC31-137-501	Airesearch P/N 975163-1	Identicality IAW FAR 21.303(c)(4), Dwg. DEC31-137, No Rev., dated 03/18/98, or Later FAA Approval	Boeing  McDonnell Douglas  General Electric	747  DC-10  CF6-6
Bushing, Gimbal	DEC31-138-501	Airesearch P/N 3231354-1	Identicality IAW FAR 21.303(c)(4), Dwg. DEC31-138, No Rev., dated 03/18/98, or Later FAA Approval	Boeing  McDonnell Douglas  General Electric	747  DC-10  CF6-6
Shaft Assembly, Output	DEC31-139-501	Airesearch P/N 3502757-2	Identicality IAW FAR 21.303(c)(4), Dwg. DEC31-139, No Rev., dated 03/18/98, or Later FAA Approval	CFM International	CFM56-5-A1, -5A3 and -5A1/F
Ratched, Splined	DEC31-140-501	Airesearch P/N 3502769-2	Identicality IAW FAR 21.303(c)(4), Dwg. DEC31-140, No Rev., dated 03/18/98, or Later FAA Approval	CFM International	CFM56-5-A1, -5A3 and -5A1/F


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Ratched, Splined	DEC31-140-503	Airesearch P/N 3502769-4	Identicality IAW FAR 21.303(c)(4), Dwg. DEC31-140, No Rev., dated 03/18/98, or Later FAA Approval	CFM International	CFM56-5-A1, -5A3 and -5A1/F
Atomizer Assembly, Fuel	DEC31-141-501	Airesearch P/N 3601520-5	Identicality IAW FAR 21.303(c)(4), Dwg. DEC31-141, No Rev., dated 03/18/98, or Later FAA Approval	Boeing  Airbus	747, 757 and 767  A310
Atomizer Assembly, Fuel	DEC31-141-503	Airesearch P/N 3601520-11	Identicality IAW FAR 21.303(c)(4), Dwg. DEC31-141, No Rev., dated 03/18/98, or Later FAA Approval	Boeing  Airbus	747, 757 and 767  A310
Atomizer Assembly, Fuel	DEC31-142-501	Airesearch P/N 3830070-1	Identicality IAW FAR 21.303(c)(4), Dwg. DEC31-142, No Rev., dated 03/18/98, or Later FAA Approval	Boeing  Airbus	747, 757 and 767  A310
Gear Set, Spur Matched - Planetary	DEC31-143-501	Airesearch P/N 364436-1	Identicality IAW FAR 21.303(c)(4), Dwg. DEC31-143, No Rev., dated 03/18/98, or Later FAA Approval	Boeing  McDonnell Douglas  Airbus  General Electric  CFM International	747 and 767  DC-10 and MD-11  A300, A300-600, A310-203, A310-304, A320-111, A320-211 and A320-212  CF6-6, -45, -50, -80A and -80C2  CFM56-5-A1, -5A3 and -5A1/F

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Gear Set, Spur Matched - Planetary	DEC31-143-503	Airesearch P/N 364436-3	21.303(c)(4), Dwg. DEC31-143, No Rev., dated 03/18/98, or Later FAA Approval	Boeing  McDonnell Douglas  Airbus	747 and 767  DC-10 and MD-11  A300, A300-600, A310-203, A310-304, A320-111, A320-211 and A320-212
Gear, Spur - Pinion	DEC31-144-501	Airesearch P/N 364437-1	21.303(c)(4), Dwg. DEC31-144, No Rev., dated 03/18/98, or Later FAA Approval	Boeing  McDonnell Douglas  Airbus	747 and 767  DC-10 and MD-11  A300, A300-600, A310-203, A310-304, A320-111, A320-211 and A320-212
Flapper Assembly, Check Valve	DEC31-145-501	Airesearch P/N 881696-2	21.303(c)(4), Dwg. DEC31-145, No Rev., dated 03/18/98, or Later FAA Approval	Boeing	727 and 737

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Gear Spur - Pinion	DEC31-146-501	Airesearch P/N 3501648-1	Identicality IAW FAR 21.303(c)(4), Dwg. DEC31-146, No Rev., dated 03/18/98, or Later FAA Approval	Boeing	747-400 and 767
Gearshaft, Spur	DEC31-147-501	Airesearch P/N 3103192-2	Identicality IAW FAR 21.303(c)(4), Dwg. DEC31-147, No Rev., dated 03/18/98, or Later FAA Approval	Allied Signal	TPE331-8, -10, -10N and -10R
Gearshaft, Spur	DEC31-147-503	Airesearch P/N 3103192-3	Identicality IAW FAR 21.303(c)(4), Dwg. DEC31-147, No Rev., dated 03/18/98, or Later FAA Approval	Allied Signal	TPE331-8, -10, -10N and -10R
Shaft – Turbine Assy Of	DEC31-150-501	Airesearch P/N 202945-2	Identicality IAW FAR 21.303(c)(4), Dwg. DEC31-150, No Rev., dated 03/31/98, or Later FAA Approval	Boeing McDonnell Douglas	727 and 737 DC-9, MD-80 and MD-90
Washer, Thrust, Turbine Wheel	DEC31-151-501	Airesearch P/N 203177-1	Identicality IAW FAR 21.303(c)(4), Dwg. DEC31-151, No Rev., dated 03/31/98, or Later FAA Approval	McDonnell Douglas	DC-9, MD-80 and MD-90
Washer, Thrust, Turbine Wheel	DEC31-151-503	Airesearch P/N 203177-4	Identicality IAW FAR 21.303(c)(4), Dwg. DEC31-151, No Rev., dated 03/31/98, or Later FAA Approval	Boeing	727 and 737
Washer, Thrust, Turbine Wheel	DEC31-151-505	Airesearch P/N 203177-5	Identicality IAW FAR 21.303(c)(4), Dwg. DEC31-151, No Rev., dated 03/31/98, or Later FAA Approval	Boeing	727
Slinger, Oil	DEC31-152-501	Airesearch P/N 203385	Identicality IAW FAR 21.303(c)(4), Dwg. DEC31-152, No Rev., dated 03/31/98, or Later FAA Approval	Boeing McDonnell Douglas	727 and 737 DC-9, MD-80 and MD-90
Slinger, Oil	DEC31-152-503	Airesearch P/N 203385-2	Identicality IAW FAR 21.303(c)(4), Dwg. DEC31-152, No Rev., dated 03/31/98, or Later FAA Approval	Boeing McDonnell Douglas	727 and 737 DC-9, MD-80 and MD-90

<u>Part Name</u>	<u>Part Number</u>	<u>Approved Replacement For</u>	<u>FAA Approval Basis &amp; Approved Design Data</u>	<u>Installation Eligibility</u>	<u>Model</u>
Shaft, Turbine	DEC31-153-501	Airesearch P/N 2206106-1	Identicality IAW FAR 21.303(c)(4), Dwg. DEC31-153, No Rev., dated 03/31/98, or Later FAA Approval	Boeing	757 and 767
Seal, Air Stationary	DEC31-155-501	Airesearch P/N 3615081-1	Identicality IAW FAR 21.303(c)(4), Dwg. DEC31-155, No Rev., dated 03/31/98, or Later FAA Approval	Boeing	757 and 767
Seal, Air Stationary	DEC31-155-503	Airesearch P/N 3615081-2	Identicality IAW FAR 21.303(c)(4), Dwg. DEC31-155, No Rev., dated 03/31/98, or Later FAA Approval	Boeing Airbus	757 and 767 A300-600 and A310
Weight And Pivot, Speed Governor	DEC61-007-501	Hamilton Standard P/N 743585-1	Identicality IAW FAR 21.303(c)(4), Dwg. DEC61-007, Rev. B, dated 04/13/98, or Later FAA Approval	Pratt & Whitney  Boeing McDonnell Douglas Erickson Air Columbia Helicopters, Inc. Chet Raspberry Inc. Aviation International Rotors, Inc. Silver Bay Logging, Inc. Blue Bird Helicopter	JT8D-17R, -17AR, -209, -217, -217A, -217C, JFTD12A-4A and -5A  727 DC-9 and MD-80 S-64E and S-64F CH-54A CH-54A CH-54A CH-54A CH-54B

-END OF LISTING-

  
**Jim Reeves**  
 Manager, Atlanta Manufacturing  
 Inspection District Office