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Manufacturing Inspection District Office, ANE-MIDO-41

FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL

Turbine Kinetics, Inc.
 A HEICO Aerospace Company
 60 Sequin Drive
 Glastonbury, CT 06033

PMA NO. PQ0816NE
 SUPPLEMENT NO. 987
 DATE: March 15, 2016

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Gearshaft, Spur	DEC31-014-501	362849-2	Identity per 14 CFR 21.303. <u>DWG No.:</u> DEC31-014 <u>Rev:</u> C <u>Date:</u> 09/16/03 or later FAA-approved revisions.	Boeing	747-100 Series, 747-200B Series, 747-200F Series, 747-200C Series, 747SR Series, 747SP Series, 747-100B Series, 747-300 Series, 747-100B SUD Series, 747-400 Series, 747-400D Series, 747-400F Series, 747-8F Series, 747-8 Series, 767-200 Series, 767-300 Series, 767-300F Series, 767-400ER Series, DC-10-10, DC-10-40, DC-10-30, DC-10-30F (KC-10A, KDC-10), DC-10-10F, DC-10-40F, DC-10-15, MD-11, MD-11F
Shaft, Drive-Oil Pump	DEC31-026-501	969292-1	Identity per 14 CFR 21.303. <u>DWG No.:</u> DEC31-026 <u>Rev:</u> B <u>Date:</u> 10/16/02 or later FAA-approved revisions.	Boeing	707-100 Long Body, 707-200, 707-100B Long Body, 707-100B Short Body, 707-300 Series,



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PMA NO. PQ0816NE
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					707-400 Series, 707-300B Series, 707-300C Series, 727 Series, 727-100 Series, 727C Series, 727-100C Series, 727-200 Series, 727-200F Series, 737-100 Series, 737-200 Series, 737-200C Series, 737-300 Series, 737-400 Series, 737-500 Series, 737-700 Series, 737-800 Series, 737-600 Series, 737-700C Series, 737-900 Series, 737-900ER Series, DC-8-11, DC-8-12, DC-8-21, DC-8-31, DC-8-32, DC-8-33, DC-8-41, DC-8-42, DC-8-43, DC-8-51, DC-8-52, DC-8-53, DC-8F-54, DC-8F-55, DC-8-55, DC-8-61, DC-8-61F, DC-8-62, DC-8-62F, DC-8-63,
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DATE: March 15, 2016

					DC-8-63F, DC-8-71, DC-8-71F, DC-8-72, DC-8-72F, DC-8-73, DC-8-73F, DC-9-11, DC-9-12, DC-9-13, DC-9-14, DC-9-15, DC-9-15F, DC-9-21, DC-9-31, DC-9-32, DC-9-32 (VC-9C), DC-9-32F, DC-9-32F (C-9A, C-9B), DC-9-33F, DC-9-34, DC-9-34F, DC-9-41, DC-9-51, DC-9-81 (MD-81), DC-9-82 (MD-82), DC-9-83 (MD-83), DC-9-87 (MD-87), MD-88, 1-11 200 series, 1-11 400 series
				British Aerospace	



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 SUPPLEMENT NO. 987
 DATE: March 15, 2016

Shaft, Drive, Fuel Pump	DEC31-027-505	3603685-3	Identicality per 14 CFR 21.303. <u>DWG No.:</u> DEC31-027 <u>Rev:</u> A <u>Date:</u> 02/16/12 or later FAA-approved revisions.	Boeing	707-100 Long Body, 707-200, 707-100B Long Body, 707-100B Short Body, 707-300 Series, 707-400 Series, 707-300B Series, 707-300C Series, 727 Series, 727-100 Series, 727C Series, 727-100C Series, 727-200 Series, 727-200F Series, 737-100 Series, 737-200 Series, 737-200C Series, 737-300 Series, 737-400 Series, 737-500 Series, 737-700 Series, 737-800 Series, 737-600 Series, 737-700C Series, 737-900 Series, 737-900ER Series, DC-8-11, DC-8-12, DC-8-21, DC-8-31, DC-8-32, DC-8-33, DC-8-41, DC-8-42, DC-8-43, DC-8-51, DC-8-52, DC-8-53,
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PMA NO. PQ0816NE
SUPPLEMENT NO. 987
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					DC-8F-54, DC-8F-55, DC-8-55, DC-8-61, DC-8-61F, DC-8-62, DC-8-62F, DC-8-63, DC-8-63F, DC-8-71, DC-8-71F, DC-8-72, DC-8-72F, DC-8-73, DC-8-73F, DC-9-11, DC-9-12, DC-9-13, DC-9-14, DC-9-15, DC-9-15F, DC-9-21, DC-9-31, DC-9-32, DC-9-32 (VC-9C), DC-9-32F, DC-9-32F (C-9A, C-9B), DC-9-33F, DC-9-34, DC-9-34F, DC-9-41, DC-9-51, DC-9-81 (MD-81), DC-9-82 (MD-82), DC-9-83 (MD-83), DC-9-87 (MD-87),
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PMA NO. PQ0816NE
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				British Aerospace	MD-88, 1-11 200 series, 1-11 400 series
Gear, Spur, Internal	DEC31- 032-501	362846-2	Identicality per 14 CFR 21.303. <u>DWG No.:</u> DEC31-032 <u>Rev:</u> C <u>Date:</u> 01/23/08 or later FAA-approved revisions.	Boeing	747-100 Series, 747-200B Series, 747-200F Series, 747-200C Series, 747SR Series, 747SP Series, 747-100B Series, 747-300 Series, 747-100B SUD Series, 747-400 Series, 747-400D Series, 747-400F Series, 747-8F Series, 747-8 Series, 767-200 Series, 767-300 Series, 767-300F Series, 767-400ER Series, DC-10-10, DC-10-40, DC-10-30, DC-10-30F (KC-10A, KDC- 10), DC-10-10F, DC-10-40F, DC-10-15, MD-11, MD-11F, A300 A300, Model B2-1A, A300, Model B2-1C, A300, Model B4-2C A300, Model
				Airbus	



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				Lockheed	B2K-3C, A300, Model B4-103, A300, Model B2-203, A300, Model B4-203, L-1011-385-1, L-1011-385-1- 14, L-1011-385-1- 15, L-1011-385-3
Nut, Retaining Impeller	DEC31- 091-503	379523-1	Identicality per 14 CFR 21.303. <u>DWG No.:</u> DEC31-091 <u>Rev:</u> B <u>Date:</u> 12/04/07 or later FAA-approved revisions.	Boeing	727 Series, 727-100 Series, 727C Series, 727-100C Series, 727-200 Series, 727-200F Series, 737-100 Series, 737-200 Series, 737-200C Series, 737-300 Series, 737-400 Series, 737-500 Series, 737-700 Series, 737-800 Series, 737-600 Series, 737-700C Series, 737-900 Series, 737-900ER Series, DC-9-11, DC-9-12, DC-9-13, DC-9-14, DC-9-15, DC-9-15F, DC-9-21, DC-9-31, DC-9-32, DC-9-32 (VC-



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					9C), DC-9-32F, DC-9-32F (C-9A, C-9B), DC-9-33F, DC-9-34, DC-9-34F, DC-9-41, DC-9-51, DC-9-81 (MD- 81), DC-9-82 (MD- 82), DC-9-83 (MD- 83, DC-9-87 (MD- 87), MD-88
Liner, Bearing	DEC31- 092-501	3810133-1	Identity per 14 CFR 21.303. <u>DWG No.:</u> DEC31-092 <u>Rev:</u> - <u>Date:</u> 05/02/97 or later FAA-approved revisions.	Boeing Airbus	757-200 Series, 757-200PF Series, 757-200CB Series, 757-300 Series, 767-200 Series, 767-300 Series, 767-300F Series, 767-400ER, <u>A310</u> A310, Model 204, A310, Model 221, A310, Model 222, A310, Model 203, A310, Model 322, A310, Model 324, A310, Model



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PMA NO. PQ0816NE
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					304, A310, Model 325
Bearing Set, Sleeve, Matched	DEC31- 095-501	968055-1	Identity per 14 CFR 21.303. <u>DWG No.:</u> DEC31-095 <u>Rev:</u> A <u>Date:</u> 03/17/08 or later FAA-approved revisions.	Boeing	727 Series, 727-100 Series, 727C Series, 727-100C Series, 727-200 Series, 727-200F Series, 737-100 Series, 737-200 Series, 737-200C Series, 737-300 Series, 737-400 Series, 737-500 Series, 737-700 Series, 737-800 Series, 737-600 Series, 737-700C Series, 737-900 Series, 737-900ER Series, DC-9-11, DC-9-12, DC-9-13, DC-9-14, DC-9-15, DC-9-15F, DC-9-21, DC-9-31, DC-9-32, DC-9-32 (VC- 9C), DC-9-32F, DC-9-32F (C-9A, C-9B), DC-9-33F, DC-9-34, DC-9-34F, DC-9-41, DC-9-51, DC-9-81 (MD-



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					81), DC-9-82 (MD-82), DC-9-83 (MD-83, DC-9-87 (MD-87), MD-88
Bearing Set, Sleeve, Matched	DEC31-095-503	968055-2	Identity per 14 CFR 21.303. <u>DWG No.:</u> DEC31-095 <u>Rev:</u> A <u>Date:</u> 03/17/08 or later FAA-approved revisions.	Boeing	727 Series, 727-100 Series, 727C Series, 727-100C Series, 727-200 Series, 727-200F Series, 737-100 Series, 737-200 Series, 737-200C Series, 737-300 Series, 737-400 Series, 737-500 Series, 737-700 Series, 737-800 Series, 737-600 Series, 737-700C Series, 737-900 Series, 737-900ER Series, DC-9-11, DC-9-12, DC-9-13, DC-9-14, DC-9-15, DC-9-15F, DC-9-21, DC-9-31, DC-9-32, DC-9-32 (VC-9C), DC-9-32F, DC-9-32F (C-9A, C-9B), DC-9-33F,



FAA

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					DC-9-34, DC-9-34F, DC-9-41, DC-9-51, DC-9-81 (MD-81), DC-9-82 (MD-82), DC-9-83 (MD-83), DC-9-87 (MD-87), MD-88
Seal, Lip	DEC31-107-501	3237917-1	Identicality per 14 CFR 21.303. <u>DWG No.:</u> DEC31-107 <u>Rev:</u> A <u>Date:</u> 05/07/03 or later FAA-approved revisions.	Boeing	747-100 Series, 747-200B Series, 747-200F Series, 747-200C Series, 747SR Series, 747SP Series, 747-100B Series, 747-300 Series, 747-100B SUD Series, 747-400 Series, 747-400D Series, 747-400F Series, 747-8F Series, 747-8 Series, 767-200 Series, 767-300 Series, 767-300F Series, 767-400ER Series, DC-10-10, DC-10-40, DC-10-30, DC-10-30F (KC-10A, KDC-10), DC-10-10F, DC-10-40F, DC-10-15



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Shaft and Sleeve Set, Matched	DEC31-130-503	3602218-6	Identicality per 14 CFR 21.303. <u>DWG No.:</u> DEC31-130 <u>Rev:</u> F <u>Date:</u> 03/17/08 or later FAA-approved revisions.	Boeing	737-100 Series, 737-200 Series, 737-200C Series, 737-300 Series, 737-400 Series, 737-500 Series, 737-700 Series, 737-800 Series, 737-600 Series, 737-700C Series, 737-900 Series, 737-900ER Series, DC-9-11, DC-9-12, DC-9-13, DC-9-14, DC-9-15, DC-9-15F, DC-9-21, DC-9-31, DC-9-32, DC-9-32 (VC-9C), DC-9-32F, DC-9-32F (C-9A, C-9B), DC-9-33F, DC-9-34, DC-9-34F, DC-9-41, DC-9-51, DC-9-81 (MD-81), DC-9-82 (MD-82), DC-9-83 (MD-83), DC-9-87 (MD-87), MD-88
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Nut, Plain – Hexagon	DEC31-134-501	974699-1	Identity per 14 CFR 21.303. <u>DWG No.:</u> DEC31-134 <u>Rev:</u> E <u>Date:</u> 11/06/15 or later FAA-approved revisions.	Boeing	747-100 Series, 747-200B Series, 747-200F Series, 747-200C Series, 747SR Series, 747SP Series, 747-100B Series, 747-300 Series, 747-100B SUD Series, 747-400 Series, 747-400D Series, 747-400F Series, 747-8F Series, 747-8 Series, DC-10-10, DC-10-40, DC-10-30, DC-10-30F (KC-10A, KDC-10), DC-10-10F, DC-10-40F, DC-10-15
Bushing, Gimbal	DEC31-136-503	974695-19	Identity per 14 CFR 21.303. <u>DWG No.:</u> DEC31-136 <u>Rev:</u> B <u>Date:</u> 04/15/04 or later FAA-approved revisions.	Boeing	747-100 Series, 747-200B Series, 747-200F Series, 747-200C Series, 747SR Series, 747SP Series, 747-100B Series, 747-300 Series, 747-100B SUD Series, 747-400 Series, 747-400D Series, 747-400F Series, 747-8F Series, 747-8 Series, DC-10-10, DC-10-40, DC-10-30,



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					DC-10-30F (KC-10A, KDC-10), DC-10-10F, DC-10-40F, DC-10-15
Gear Set, Spur Matched – Planetary	DEC31-143-503	364436-3	Identity per 14 CFR 21.303. <u>DWG No.:</u> DEC31-143 <u>Rev:</u> C <u>Date:</u> 08/10/15 or later FAA-approved revisions.	Boeing	747-100 Series, 747-200B Series, 747-200F Series, 747-200C Series, 747SR Series, 747SP Series, 747-100B Series, 747-300 Series, 747-100B SUD Series, 747-400 Series, 747-400D Series, 747-400F Series, 747-8F Series, 747-8 Series, 767-200 Series, 767-300 Series, 767-300F Series, 767-400ER Series, DC-10-10, DC-10-40, DC-10-30, DC-10-30F (KC-10A, KDC-10), DC-10-10F, DC-10-40F, DC-10-15, MD-11, MD-11F, A300 A300, Model B2-1A, A300, Model B2-1C,
				Airbus	



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					A300, Model B4-2C, A300, Model B2K-3C, A300, Model B4-103, A300, Model B2-203, A300, Model B4-203, <u>A300-600</u> A300, Model B4-601, A300, Model B4-603, A300, Model B4-620, A300, Model B4-605R, A300, Model B4-622R, A300, Model F4-605R, A300, Model F4-622R, A300, Model C4-605R Variant F, A300, Model B4-622 <u>A310</u> A310, Model 203, A310, Model 304, <u>A320</u> A320 Model- 111*, A320, Model 211, A320, Model 212
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					A300, Model B2-203, A300, Model B4-203, <u>A300-600</u> A300, Model B4-601, A300, Model B4-603, A300, Model B4-620, A300, Model B4-605R, A300, Model B4-622R, A300, Model F4-605R, A300, Model F4-622R, A300, Model C4-605R Variant F, A300, Model B4-622 <u>A310</u> A310, Model 203, A310, Model 304, <u>A320</u> A320 Model- 111*, A320, Model 211, A320, Model 212
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Shaft Assembly, Flexible	DEC31-160-503	121754-2	Identicality per 14 CFR 21.303. <u>DWG No.:</u> DEC31-160 <u>Rev:</u> E <u>Date:</u> 05/09/12 or later FAA-approved revisions.	Bombardier	CL-600-1A11 (CL-600), CL-600-2A12 (CL-601), CL-600-2B16 (CL-601-3A Variant), CL-600-2B16 (CL-601-3R Variant), CL-600-2B16 (CL-604 Variant), CL-600-2B19 (Regional Jet Series 100 & 440)
Shaft Assembly, Flexible	DEC31-160-503	121754-3	Identicality per 14 CFR 21.303. <u>DWG No.:</u> DEC31-160 <u>Rev:</u> E <u>Date:</u> 05/09/12 or later FAA-approved revisions.	Bombardier	CL-600-1A11 (CL-600), CL-600-2A12 (CL-601), CL-600-2B16 (CL-601-3A Variant), CL-600-2B16 (CL-601-3R Variant), CL-600-2B16 (CL-604 Variant), CL-600-2B19 (Regional Jet Series 100 & 440)
Shaft Assembly, Flexible	DEC31-160-509	121754-5	Identicality per 14 CFR 21.303. <u>DWG No.:</u> DEC31-160 <u>Rev:</u> E <u>Date:</u> 05/09/12 or later FAA-approved revisions.	Bombardier	CL-600-1A11 (CL-600), CL-600-2A12 (CL-601), CL-600-2B16 (CL-601-3A Variant), CL-600-2B16



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					(CL-601-3R Variant), CL-600-2B16 (CL-604 Variant), CL-600-2B19 (Regional Jet Series 100 & 440)
Shaft Assembly, Flexible	DEC31-160-511	121754-6	Identity per 14 CFR 21.303. <u>DWG No.:</u> DEC31-160 <u>Rev:</u> E <u>Date:</u> 05/09/12 or later FAA-approved revisions.	Bombardier	CL-600-1A11 (CL-600), CL-600-2A12 (CL-601), CL-600-2B16 (CL-601-3A Variant), CL-600-2B16 (CL-601-3R Variant), CL-600-2B16 (CL-604 Variant), CL-600-2B19 (Regional Jet Series 100 & 440)
Rotor, Seal	DEC31-167-501	3822057-3	Identity per 14 CFR 21.303. <u>DWG No.:</u> DEC31-167 <u>Rev:</u> - <u>Date:</u> 01/08/99 or later FAA-approved revisions.	Boeing Airbus	757-200 Series, 757-200PF Series, 757-200CB Series, 757-300 Series, 767-200 Series, 767-300 Series, 767-300F Series, 767-400ER <u>A300-600</u> A300, Model B4-601, A300, Model B4-603, A300, Model



FAA

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					B4-620, A300, Model B4-605R, A300, Model B4-622R A300, Model F4-605R, A300, Model F4-622R, A300, Model C4-605R Variant F, A300, Model B4-622, <u>A310</u> A310, Model 204, A310, Model 221, A310, Model 222, A310, Model 203, A310, Model 322, A310, Model 324, A310, Model 304, A310, Model 325
Plug, Machine	DEC92-001-503	572-510-9004 A75M	Identicality per 14 CFR 21.303. <u>DWG No.:</u> DEC92-001 <u>Rev:</u> K <u>Date:</u> 04/06/15 or later FAA-approved revisions.	Boeing	707-100 Long Body, 707-200, 707-100B Long Body, 707-100B Short Body, 707-300 Series, 707-400 Series, 707-300B Series, 707-300C Series,



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SUPPLEMENT NO. 987
DATE: March 15, 2016

					727 Series, 727-100 Series, 727C Series, 727-100C Series, 727-200 Series, 727-200F Series, 737-100 Series, 737-200 Series, 737-200C Series, 737-300 Series, 737-400 Series, 737-500 Series, 737-700 Series, 737-800 Series, 737-600 Series, 737-700C Series, 737-900 Series, 737-900ER Series, 747-100 Series, 747-200B Series, 747-200F Series, 747-200C Series, 747SR Series, 747SP Series, 747-100B Series, 747-300 Series, 747-100B SUD Series, 747-400 Series, 747-400D Series, 747-400F Series, 747-8F Series, 747-8 Series, 767-200 Series, 767-300 Series, 767-300F Series, 767-400ER Series, DC-8-11, DC-8-12, DC-8-21,
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FAA

Manufacturing Inspection District Office, ANE-MIDO-41

FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL

Turbine Kinetics, Inc.
A HEICO Aerospace Company
60 Sequin Drive
Glastonbury, CT 06033

PMA NO. PQ0816NE
SUPPLEMENT NO. 987
DATE: March 15, 2016

					DC-8-31, DC-8-32, DC-8-33, DC-8-41, DC-8-42, DC-8-43, DC-8-51, DC-8-52, DC-8-53, DC-8F-54, DC-8F-55, DC-8-55, DC-8-61, DC-8-61F, DC-8-62, DC-8-62F, DC-8-63, DC-8-63F, DC-8-71, DC-8-71F, DC-8-72, DC-8-72F, DC-8-73, DC-8-73F, DC-9-11, DC-9-12, DC-9-13, DC-9-14, DC-9-15, DC-9-15F, DC-9-21, DC-9-31, DC-9-32, DC-9-32 (VC-9C), DC-9-32F, DC-9-32F (C-9A, C-9B), DC-9-33F, DC-9-34, DC-9-34F, DC-9-41,
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FAA

Manufacturing Inspection District Office, ANE-MIDO-41

FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL

Turbine Kinetics, Inc.
A HEICO Aerospace Company
60 Sequin Drive
Glastonbury, CT 06033

PMA NO. PQ0816NE
SUPPLEMENT NO. 987
DATE: March 15, 2016

					DC-9-51, DC-9-81 (MD-81), DC-9-82 (MD-82), DC-9-83 (MD-83), DC-9-87 (MD-87), MD-88, DC-10-10, DC-10-40, DC-10-30, DC-10-30F (KC-10A, KDC-10), DC-10-10F, DC-10-40F, DC-10-15, MD-11, MD-11F <u>A300</u> A300, Model B2-1A, A300, Model B2-1C, A300, Model B4-2C, A300, Model B2K-3C, A300, Model B4-103, A300, Model B2-203, A300, Model B4-203, Lockheed L-1011-385-1, L-1011-385-1-14, L-1011-385-1-15, L-1011-385-3
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FAA

Manufacturing Inspection District Office, ANE-MIDO-41

FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL

Turbine Kinetics, Inc.
A HEICO Aerospace Company
60 Sequin Drive
Glastonbury, CT 06033

PMA NO. PQ0816NE
SUPPLEMENT NO. 987
DATE: March 15, 2016

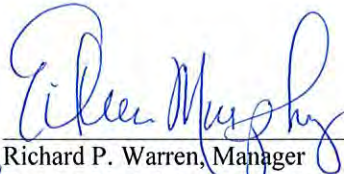
------(END OF DATA)-----

GENERAL NOTES:

Provide minor design changes in a manner as determined by the ACO. Process major design changes to drawings and specifications in the same manner as that for an original FAA-PMA

The FAA accepted the ICA approach for the above articles with their designs. The ICA may refer to those of the respective articles from the holders of type certificates. Otherwise, provide supplemental ICA for differences in the replacement articles. Make referral statements for supplemental ICA readily available per 14 CFR 21.50.

for 
Robert G. Mann, Manager
Boston, Aircraft Certification Office


Richard P. Warren, Manager
Bradley Manufacturing Inspection
District Office



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

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

January 28, 1999

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 January 25, 1999, 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. 48, dated January 28, 1999 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. 48

DATED JANUARY 28, 1999

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

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

Part Name	Part Number	Approved Replacement For	FAA Approval Basis & Approved Design Data	Installation Eligibility	Model
Shaft Assembly, Flexible	DEC31-017-501	Airesearch P/N 121750-1	Identicity IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-017, No Rev. dated 11/04/98, or Later FAA Approval	Boeing McDonnell Douglas General Electric	747 DC-10 CF6-6 and CF6-50
Shaft Assembly, Flexible	DEC31-018-501	Airesearch P/N 121762-1	Identicity IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-018, No Rev. dated 11/04/98, or Later FAA Approval	Boeing CFM International	737 CFM56-2, -3 and -5
Shaft Assembly, Flexible	DEC31-018-503	Airesearch P/N 121762-2	Identicity IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-018, No Rev. dated 11/04/98, or Later FAA Approval	Boeing CFM International	737 CFM56-2, -3 and -5
Shaft Assembly, Flexible	DEC31-018-505	Airesearch P/N 121762-3	Identicity IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-018, No Rev. dated 11/04/98, or Later FAA Approval	CFM International	CFM56-2, -3 and -5
Shaft Assembly, Flexible	DEC31-018-507	Airesearch P/N 121762-4	Identicity IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-018, No Rev. dated 11/04/98, or Later FAA Approval	CFM International	CFM56-2, -3 and -5

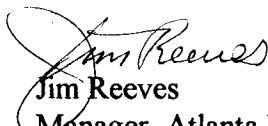
<u>Part Name</u>	<u>Part Number</u>	<u>Approved Replacement For</u>	<u>FAA Approval Basis & Approved Design Data</u>	<u>Installation Eligibility</u>	<u>Model</u>
Shaft Assembly, Flexible	DEC31-045-501	Airesearch P/N 121178-1	Identity IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-045, No Rev. dated 11/04/98, or Later FAA Approval	Boeing	747
Shaft Assembly, Flexible	DEC31-046-501	Airesearch P/N 121652-1	Identity IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-046, No Rev. dated 11/04/98, or Later FAA Approval	Boeing	747
Shaft Assembly, Flexible	DEC31-160-503	Airesearch P/N 121754-2	Identity IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-160, No Rev. dated 11/04/98, or Later FAA Approval	Bombardier	CL600-1A11, CL600-2A12 and CL600-2B16
Shaft Assembly, Flexible	DEC31-160-505	Airesearch P/N 121754-3	Identity IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-160, No Rev. dated 11/04/98, or Later FAA Approval	Bombardier	CL600-1A11, CL600-2A12 and CL600-2B16
Shaft Assembly, Flexible	DEC31-160-509	Airesearch P/N 121754-5	Identity IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-160, No Rev. dated 11/04/98, or Later FAA Approval	Bombardier	CL600-1A11, CL600-2A12 and CL600-2B16
Shaft Assembly, Flexible	DEC31-160-511	Airesearch P/N 121754-6	Identity IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-160, No Rev. dated 11/04/98, or Later FAA Approval	Bombardier	CL600-1A11, CL600-2A12 and CL600-2B16
Shaft Assembly, Flexible	DEC31-161-503	Airesearch P/N 121734-2	Identity IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-161, No Rev. dated 11/04/98, or Later FAA Approval	Boeing Rolls Royce	747, 747-400 and 767 RB211

<u>Part Name</u>	<u>Part Number</u>	<u>Approved Replacement For</u>	<u>FAA Approval Basis & Approved Design Data</u>	<u>Installation Eligibility</u>	<u>Model</u>
Shaft Assembly, Flexible	DEC31-161-505	Airesearch P/N 121734-3	Identicality IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-161, No Rev. dated 11/04/98, or Later FAA Approval	Boeing Rolls Royce	747, 747-400 and 767 RB211
Shaft Assembly, Flexible	DEC31-161-507	Airesearch P/N 121734-4	Identicality IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-161, No Rev. dated 11/04/98, or Later FAA Approval	Boeing Rolls Royce	747 RB211
Shaft Assembly, Flexible	DEC31-161-509	Airesearch P/N 121734-5	Identicality IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-161, No Rev. dated 11/04/98, or Later FAA Approval	Rolls Royce	RB211
Shaft Assembly, Flexible	DEC31-161-511	Airesearch P/N 121734-6	Identicality IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-161, No Rev. dated 11/04/98, or Later FAA Approval	Rolls Royce	RB211
Shaft Assembly, Flexible	DEC31-162-501	Airesearch P/N 121184-1	Identicality IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-162, No Rev. dated 11/04/98, or Later FAA Approval	Boeing	747
Shaft Assembly, Flexible	DEC31-162-503	Airesearch P/N 121184-2	Identicality IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-162, No Rev. dated 11/04/98, or Later FAA Approval	Boeing	747
Shaft Assembly, Flexible	DEC31-163-505	Airesearch P/N 121196-3-1	Identicality IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-163, No Rev. dated 11/04/98, or Later FAA Approval	Rolls Royce	RB211

Part Name	Part Number	Approved Replacement For	FAA Approval Basis & Approved Design Data	Installation Eligibility	Model
Shaft Assembly, Flexible	DEC31-164-501	Airesearch P/N 121728-1	Identicality IAW 14 CFR	Boeing	747
			FAR 21.303(c)(4), Dwg. DEC31-164, No Rev. dated 11/04/98, or Later FAA Approval	Lockheed	L-1011
				Rolls Royce	RB211
Shaft Assembly, Flexible	DEC31-165-503	Airesearch P/N 121388-2-1	Identicality IAW 14 CFR	Boeing	747
			FAR 21.303(c)(4), Dwg. DEC31-165, No Rev. dated 11/04/98, or Later FAA Approval		
Shaft Assembly, Flexible	DEC31-166-503	Airesearch P/N 121282-2	Identicality IAW 14 CFR	Boeing	747
			FAR 21.303(c)(4), Dwg. DEC31-166, No Rev. dated 11/04/98, or Later FAA Approval	McDonnell Douglas	DC-10
				General Electric	CF6-6 and CF6-50
Shaft Assembly, Flexible	DEC31-166-505	Airesearch P/N 121282-3	Identicality IAW 14 CFR	Boeing	747
			FAR 21.303(c)(4), Dwg. DEC31-166, No Rev. dated 11/04/98, or Later FAA Approval	McDonnell Douglas	DC-10
				General Electric	CF6-6 and CF6-50
Shaft Assembly, Flexible	DEC31-166-513	Airesearch P/N 121282-7	Identicality IAW 14 CFR	Boeing	747
			FAR 21.303(c)(4), Dwg. DEC31-166, No Rev. dated 11/04/98, or Later FAA Approval	McDonnell Douglas	DC-10
				General Electric	CF6-6 and CF6-50
Shaft Assembly, Flexible	DEC31-166-515	Airesearch P/N 121282-8	Identicality IAW 14 CFR	General Electric	CF6-80A
			FAR 21.303(c)(4), Dwg. DEC31-166, No Rev. dated 11/04/98, or Later FAA Approval		

<u>Part Name</u>	<u>Part Number</u>	<u>Approved Replacement For</u>	<u>FAA Approval Basis & Approved Design Data</u>	<u>Installation Eligibility</u>	<u>Model</u>
Shaft Assembly, Flexible	DEC31-166-517	Airesearch P/N 121282-9	Identicality IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-166, No Rev. dated 11/04/98, or Later FAA Approval	General Electric	CF6-80A
Shaft Assembly, Flexible	DEC31-166-519	Airesearch P/N 121282-10	Identicality IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-166, No Rev. dated 11/04/98, or Later FAA Approval	Boeing	747, 747-400 and 767
Shaft Assembly, Flexible	DEC31-166-521	Airesearch P/N 121282-11	Identicality IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-166, No Rev. dated 11/04/98, or Later FAA Approval	Boeing	747, 747-400 and 767

END OF LISTING


 Jim Reeves
 Manager, Atlanta Manufacturing
 Inspection District Office



U.S. Department
of Transportation
Federal Aviation
Administration

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

March 18, 2002
Revised: March 18, 2002

Project No. PQ1469CE

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

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 Identicality submitted by DEC Technologies, Inc. with letter dated March 18, 2002, meet the airworthiness requirements of the regulations applicable to the products on which the parts are to be installed. Additionally, it has been determined that DEC Technologies, Inc. has established the fabrication inspection system required by part 21 § 21.303(h) at 501 Industrial Park Road, Piney Flats, TN. Accordingly, Parts Manufacturer Approval (PMA) is hereby granted for production of the replacement parts listed in the enclosed Supplement No. **58R**.

You are reminded that the provisions of the Federal Aviation Regulations, noted in our PMA letter of approval dated October 17, 1995, also apply to the enclosed PMA Listing-Supplement No. **58R**.

Should you have any questions regarding this matter, you may wish to direct them to Ms. Angelia D. Gann, at the Atlanta MIDO office, telephone (770) 703-6104.

Sincerely,

A handwritten signature in cursive script that reads "Angelia D. Gann".

For: Jim Reeves
Manager, Atlanta Manufacturing
Inspection District Office

Enclosure

PARTS MANUFACTURER APPROVAL NO. PQ1469CE

PRODUCTION APPROVAL LISTING - SUPPLEMENT NO. 58R

DATED MARCH 5, 2002
 REVISION DATE: MARCH 18, 2002

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

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

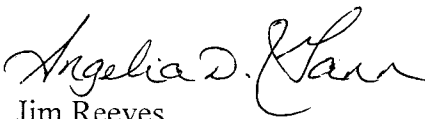
Part Name	Part Number	Approved Re-placement for Part Number	Approval Basis And Approved Design Data	Make Eligibility	Model Eligibility
Seal Assembly, Rotor	DEC61-050-501	Hamilton Standard P/N's 728849-1 and 728849-2	Identity per 14 CFR § 21.303 <u>Dwg No:</u> DEC61-050, <u>Rev:</u> A, <u>Dated:</u> 11/21/01 or later FAA approved revisions	Boeing McDonnell Douglas	747 and 757 DC-10
Nozzle, Swirl-Primary	DEC21-008-501	General Electric P/N 1275M27P04	Identity per 14 CFR § 21.303 <u>Dwg No:</u> DEC21-008, <u>Rev:</u> A, <u>Dated:</u> 10/07/95 or later FAA approved revisions	CFM International	CFM56-2, -2A, -2-C1, -2-C3, -3, -3-B1, -3B, -3B-2, -3C, -3C-1, -5A1, -5A3, -5A1/F, -5B1, -5B2, -5B1/2, -5B2/2, -5B4/2, -5C2/C3, -5C2/C3F, -5C2/C3/G, -5C4
Shaft Assembly, Flexible	DEC31-160-503	Airesearch P/N 121754-2	Identity per 14 CFR § 21.303 <u>Dwg No:</u> DEC31-160, <u>Rev:</u> A, <u>Dated:</u> 11/27/01 or later FAA approved revisions	Bombardier	CL600-1A11 (CL600); CL600-2A12 (CL601); CL600-2B16 (CL601-3A, CL601-3R & CL604); CL600-2B19 (Regional Jet Series 100)
Shaft Assembly, Flexible	DEC31-160-505	Airesearch P/N 121754-3	Identity per 14 CFR § 21.303 <u>Dwg No:</u> DEC31-160, <u>Rev:</u> A, <u>Dated:</u> 11/27/01 or later FAA approved revisions	Bombardier	CL600-1A11 (CL600); CL600-2A12 (CL601); CL600-2B16 (CL601-3A, CL601-3R & CL604); CL600-2B19 (Regional Jet Series 100)

<u>Part Name</u>	<u>Part Number</u>	<u>Approved Re-placement for Part Number</u>	<u>Approval Basis And Approved Design Data</u>	<u>Make Eligibility</u>	<u>Model Eligibility</u>
Shaft Assembly, Flexible	DEC31-160-509	Airesearch P/N 121754-5	Identicality per 14 CFR § 21.303 <u>Dwg No:</u> DEC31-160, <u>Rev:</u> A, <u>Dated:</u> 11/27/01 or later FAA approved revisions	Bombardier	CL600-1A11 (CL600); CL600-2A12 (CL601); CL600-2B16 (CL601-3A, CL601-3R & CL604); CL600-2B19 (Regional Jet Series 100)

<u>Part Name</u>	<u>Part Number</u>	<u>Approved Re-placement for Part Number</u>	<u>Approval Basis And Approved Design Data</u>	<u>Make Eligibility</u>	<u>Model Eligibility</u>
Shaft Assembly, Flexible	DEC31-160-511	Airesearch P/N 121754-6	Identicality per 14 CFR § 21.303 <u>Dwg No:</u> DEC31-160, <u>Rev:</u> A, <u>Dated:</u> 11/27/01 or later FAA approved revisions	Bombardier	CL600-1A11 (CL600); CL600-2A12 (CL601); CL600-2B16 (CL601-3A, CL601-3R & CL604); CL600-2B19 (Regional Jet Series 100)

-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.

for: 
 Jim Reeves
 Manager, Atlanta Manufacturing
 Inspection District Office