



Phoenix Aerospace Inc.

PMA_S

PRODUCTION APPROVAL LISTING - SUPPLEMENT NO. 24
PARTS MANUFACTURER APPROVAL NO. PQ3414CE
May 4, 2001

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

Phoenix Aerospace Inc.
220 West 80th Terrace
P.O. Box 8744
Kansas City, MO 64114-0744
816-333-3400

<u>Part Name</u>	<u>Part Number</u>	<u>Approved Replacement For</u>	<u>FAA Approval Basis and Approved Design Data</u>	<u>Installation Eligibility: MAKE</u>	<u>Installation Eligibility: MODEL</u>
Voltage Regulator	VR-1010-24-2A	de Havilland Inc. P/N 1010-24-2A	Identicality 14 CFR 21.303, Licensing Agreement between Phoenix Aerospace, Inc. & de Havilland Inc., dtd 1/24/96. Dwg. 095027, Rev. Q dtd 9/20/91 or later FAA approved revision.	de Havilland Inc.	DHC-6
Voltage Regulator	VR-1010-24-2A	Modification Part	Identicality per 14 CFR 21.303, STC SA1014GL, dated 4/25/86, amended 5/18/95. Licensing Agreement between Phoenix Aerospace, Inc. and Turbine Conversions, Ltd., letter dtd 10/10/96. Dwg. 095027, Rev. Q dtd 9/20/91 or later FAA approved revision.	Nytwornia Sprzetu Komunikacyjnego	PZL M18 and PZL M18A
Voltage Regulator	VR-1010-24-2A	Modification Part	STC SA00487WI dtd 12/12/96. Dwg. 095027, Rev. Q dtd 9/20/91 or later FAA approved revision.	Beech	-60 s/n P-4 through 126 except s/n 123; - A60 s/n P-123 and P-127 through P-246; - B60 s/n P-247 through P-465
Paralleling Control Box	DH-1030-115/3-1200-SS IID	de Havilland Inc. P/N 7SC0167-003	Identicality 14 CFR 21.303, Licensing Agreement between Phoenix Aerospace, Inc. & de Havilland Inc., dtd 4/19/96. Dwg. 095255, Rev. Q dtd 6/30/95 or later FAA approved revision.	de Havilland Inc.	DHC-8 Series 100, 200, 300
Voltage Regulator	SB-1010-24-2E	Shorts P/N SB-1010-24-2E	Identicality per 14 CFR 21.303, Licensing Agreement between Phoenix Aerospace, Inc. and Shorts Brothers letter dtd 8/19/96. Dwg. 095052, Rev. 1 dated 3/7/83 or later FAA approved revision	Shorts	Skyvan SC-7

<u>Part Name</u>	<u>Part Number</u>	<u>Approved Replacement For</u>	<u>FAA Approval Basis and Approved Design Data</u>	<u>Installation Eligibility: MAKE</u>	<u>Installation Eligibility: MODEL</u>
Bus Bar Protection Unit	BP-1010-24-8E	de Havilland Inc. P/N 8SC0003	Identity per 14 CFR 21.303, Licensing Agreement between Phoenix Aerospace, Inc. and de Havilland Inc., letter dtd 9/20/96. Dwg. 095316, no rev., dtd 6/13/96 or later FAA approved revision	de Havilland Inc.	DHC-8
DC Generator Control Unit	GC-1010-24-6AM	Modification Part	STC SR00470WI dtd 9/25/96. Dwg. 095304, rev. N/C dtd 2/1/91 or later FAA approved revision.	Bell Helicopter	206B3 with IFR capability dtd 2-29-96
DC Voltage Regulator	VR-1010-24-2F	Modification Part	STC SR00470WI dtd 9/25/96. Dwg. 095291, rev. N/C dtd 1/22/96 or later FAA approved revision.	Bell Helicopter	206B3 with IFR capability dtd 2-29-96
Paralleling Control Box	DH1030-115/3-1200SS	deHavilland Inc. P/N DH1030-115/3-1200SS	Identity per 14 CFR Part 21.303. Licensing Agreement between Phoenix Aerospace, Inc. and deHavilland Inc. letter dtd 11/15/96. Dwg 095255, Rev. Q dated 6/30/95 or later FAA approved revision.	deHavilland Inc.	DHC-5
Inverter	DH1030-24-600-CSTYII	deHavilland Inc. P/N DH1030-24-600-CSTYII	Identity per 14 CFR Part 21.303. Licensing Agreement between Phoenix Aerospace, Inc. and deHavilland Inc. letter dtd 11/15/96. Dwg 095042, Rev. H dtd 9/14/76 or later FAA approved revision.	deHavilland Inc.	DHC-5
SPU, Supplemental Power Unit	DH1020-115-3CSII	deHavilland Inc. P/N 8SC0629	Identity per 14 CFR Part 21.303. Licensing Agreement between Phoenix Aerospace, Inc. and deHavilland Inc. letter dtd 11/15/96. Dwg 095272, Rev. N/C dtd 2/23/96 or later FAA approved revision.	deHavilland Inc.	DHC-8
Inverter	1025-24-15CS	deHavilland Inc. P/N 1025-24-15CS	Identity per 14 CFR Part 21.303. Licensing Agreement between Phoenix Aerospace, Inc. and deHavilland Inc. letter dtd 11/25/96. Dwg 095008, Rev. E dated 6/22/83 or later FAA approved revision.	deHavilland Inc.	DHC-2
Voltage Regulator	VR-1010-24-1A	deHavilland Inc. P/N VR1010-24-1A	Identity per 14 CFR Part 21.303. Licensing Agreement between Phoenix Aerospace, Inc. and deHavilland Inc. letter dtd 2/19/97. Dwg 095001, Rev. P dtd 9/20/91 or later FAA approved revision.	deHavilland Inc.	DHC-6

<u>Part Name</u>	<u>Part Number</u>	<u>Approved Replacement For</u>	<u>FAA Approval Basis and Approved Design Data</u>	<u>Installation Eligibility: MAKE</u>	<u>Installation Eligibility: MODEL</u>
Inverter	DH-1030-24-65CS	deHavilland Inc. P/N DH-1030-24-65CS	Identity per 14 CFR Part 21.303. Licensing Agreement between Phoenix Aerospace, Inc. and deHavilland Inc. letter dtd 3/12/97. Dwg 095002, Rev. M dtd 6/7/96 or later FAA approved revision.	deHavilland Inc.	DHC-6
Transverter	DH-1030-24-600-CSI	DH-1030-24-600-CSI	Licensing Agreement between Construcciones Aeronauticas S.A. and Phoenix Aerospace Inc. dtd 4/21/97. Dwg 095041, Rev. R dtd 8/12/83 or later FAA approved revision	Construcciones Aeronauticas (CASA)	C-212-CB C-212-CC C-212-CD C-212-CE
Inverter Warning Light Box	DH-1030-24-3-CSI	DH-1030-24-3-CSI	Licensing Agreement between Construcciones Aeronauticas S.A. and Phoenix Aerospace Inc. dtd 4/21/97. Dwg 095063, Rev. H dtd 11/1/85 or later FAA approved revision	Construcciones Aeronauticas (CASA)	C-212-CB C-212-CC C-212-CD C-212-CE
Paralleling Control Box	DH-1030-115/3-600-SSI	DH-1030-115/3-600-SSI	Licensing Agreement between Construcciones Aeronauticas S.A. and Phoenix Aerospace Inc. dtd 4/21/97. Dwg 095056, Rev. A dtd 9/10/81 or later FAA approved revision	Construcciones Aeronauticas (CASA)	C-212-CB C-212-CC C-212-CD C-212-CE
Autoformer	DH-1030-115/26-150-CSI	DH-1030-115/26-150-CSI	Licensing Agreement between Construcciones Aeronauticas S.A. and Phoenix Aerospace Inc. dtd 4/21/97. Dwg 095033, no Rev dtd 2/26/70 or later FAA approved revision	Construcciones Aeronauticas (CASA)	C-212-CB C-212-CC C-212-CD C-212-CE
Solid State DC Voltage Regulator	BG-1010-24-7A	Modification Part	STC00537WI dtd 5/13/97. Dwg 095198, Rev. F dtd 7/19/96 or later FAA approved revision.	Learjet	55, 55B, 55C
Inverter Warning Control Box	DH-1030-24-3-CS	deHavilland Inc. 7SC0175	Licensing Agreement between de Havilland Inc. and Phoenix Aerospace Inc. dtd 7/23/97. Dwg. 095164, rev. H dtd 7/12/85 or later FAA approved revision.	deHavilland	DHC-7
Inverter	DH-1030-24-100CS	DH-1030-24-100CS	Licensing Agreement between de Havilland Inc. and Phoenix Aerospace Inc. dtd 7/18/97. Dwg. 095000, rev. Z dtd 1/14/83 or later FAA approved revision.	deHavilland	DHC-5

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Inverter Warning Control Box	DH-1030-24-3CSII	DH-1030-24-3CSII	Licensing Agreement between de Havilland Inc. and Phoenix Aerospace Inc. dtd 7/18/97. Dwg. 095164, rev. H dtd 7/12/85 or later FAA approved revision.	deHavilland	DHC-5
Voltage Regulator	VR-1010-24-6E	Modification Part	Licensing Agreement between Turbine Power Company and Phoenix Aerospace Inc. letter dtd 7/24/97. STC SA3523NM, amended Nov 9, 1987. Soloy Conversions, Ltd. Master Dwg. List 771-300, dtd 6/30/86, Phoenix Aerospace Dwg. 095158, Rev. O dtd 5/18/83 or later FAA approved revision.	Beech	A36, A36TC
Inverter	DH-1030-24-600-CS	Modification Part	Licensing Agreement between Colt Electronics and Phoenix Aerospace, Inc. letter dtd 7/18/97. STC SA740CE, dtd 1/9/78. Colt Master Inst. drawing DH-1030-125, revised 1/28/71, DH-1030-125-I, rev. C dtd 11/14/77, Phoenix Dwg. 095041, Rev AB, dtd 1/3/92 or later FAA approved revision.	Hawker-Siddeley	DH-125-1A, -1A/522, -1A/R-522, -3A, -3A/R, -1A/S-522, -3A/RA and -400A.
Inverter	DH-1030-24-1200-CS	Modification Part	Licensing Agreement between Colt Electronics and Phoenix Aerospace, Inc. letter dtd 7/18/97. STC SA740CE, dtd 1/9/78. Colt Master Inst. drawing DH-1030-125, revised 1/28/71, DH-1030-125-I, rev. C dtd 11/14/77, Phoenix Dwg. 095044 Rev V, dtd 7/14/97 or later FAA approved revision.	Hawker-Siddeley	DH-125-1A, -1A/522, -1A/R-522, -3A, -3A/R, -1A/S-522, -3A/RA and -400A.
Paralleling Control Box	DH-1030-115/3-1200-SS	Modification Part	Licensing Agreement between Colt Electronics and Phoenix Aerospace, Inc. letter dtd 7/18/97. STC SA740CE, dtd 1/9/78. Colt Master Inst. drawing DH-1030-125, revised 1/28/71, DH-1030-125-I, rev. C, dtd 11/14/77, Phoenix Dwg. 095054 Rev I, dtd 11/5/81 or later FAA approved revision.	Hawker-Siddeley	DH-125-1A, -1A/522, -1A/R-522, -3A, -3A/R, -1A/S-522, -3A/RA and -400A.

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Inverter Warning Control Box	DH-1030-24-3CS	Modification Part	Licensing Agreement between Colt Electronics and Phoenix Aerospace, Inc. letter dtd 7/18/97. STC SA740CE, dtd 1/9/78. Colt Master Inst. drawing DH-1030-125, revised 1/28/71, DH-1030-125-1, rev. C, dtd 11/14/77, Phoenix Dwg. 095163 Rev H, dtd 11/1/85 or later FAA approved revision.	Hawker-Siddeley	DH-125-1A, -1A/522, -1A/R-522, -3A, -3A/R, -1A/S-522, -3A/RA and -400A.
Voltage Regulator	VR-1010-24-2AW	Modification Part	Licensing Agreement between A.M. Luton and Phoenix Aerospace, Inc. letter dtd 12/1/97. STC SA3777NM dtd 6/2/88, amended 8/9/96. Installation Instructions SAIP-021087, Rev. C, dtd 8/8/95 or later FAA approved revision.	deHavilland	DHC-3
Inverter	BH-1030-24-100CS	Modification Part	Licensing Agreement between Orlando Aviation Inc. and Phoenix Aerospace, Inc. letter dtd 3/31/98. STC SR09190RC dtd 3/12/98. Dwg. OA55-00-30000, Rev. D dtd 3/12/98 or later FAA approved revision.	Sikorsky	S-55
Voltage Regulator	VR-1010-24-2A	Modification Part	STC SA00575WI dtd 9/26/97, reissued 4/9/98. Dwg. 095027, Rev. Q dtd 9/20/91 or later FAA approved revision.	Beech	65-A90; B-90; C-90 s/n LJ-114 through LJ-539 and LJ-571 through LJ-677; E-90 s/n LW-14 through LW-156
Voltage Regulator	VR-1010-24-6E	Modification Part	Licensing Agreement between Soloy Conversions Ltd. and Phoenix Aerospace, Inc. letter dtd 10/31/91. STC SA3322NM dtd 4/2/86, amended 6/21/89, Dwg. 095158, Rev. H dtd 12/11/84 or later FAA approved revision.	Cessna	207, 207A, T207, T207A
Solid State DC Generator Control Unit	GC-1010-24-6L	Modification Part	STC SR00799WI dtd 6/29/99. Dwg 095306, Rev - dtd 5/8/98 or later FAA approved revision.	Bell	407
Generator Control	GC-1010-24-6D	Modification Part	STC SR00887WI dtd 07/03/00. Dwg 095214, No Rev., dtd 07/27/99 or later FAA approved revision.	Bell	206A & B, S/N 4310 and prior
* Voltage Regulator	BG-1010-24-8A	Modification Part	STC ST00955WI Issue dated 3/27/01. Dwg. 095298, No Rev., dtd Feb 2, 2001 or later FAA approved revision.	Learjet	35, 35A, 36, 36A

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August 28, 1995

Parts Manufacturer Approval Listing - Supplement No. 23
Federal Aviation Administration - Parts Manufacturer Approval
Phoenix Aerospace, Inc.
220 West 80th Terr., P.O. Box 8744, Kansas City, MO 64114-0744
816-333-4855

<u>Phoenix Aero. FAA-Approved Design Data</u>	<u>Approved Replacement For</u>	<u>FAA Design Approval Means</u>	<u>Installation Make</u>	<u>Eligibility Model</u>
Generator Control Unit PAI P/N GC-1010-24-3B Dwg. No. 095200, Rev. C, dtd or later FAA-approved rev.	Modification Part	Licensing Agreement between Phoenix Aerospace Inc & Colt Electronics Co. dtd 1-8-82. STC SA1596CE dtd 6-6-80	Lockheed	1329-23
Ground Fault Transformer PAI P/N DH-1030-24-2CS Dwg. No. 095113, No Rev. dtd 2-15-79, or later FAA-approved rev.	Aerospatiale Helicopter Corp. P/N 366-D-124- 01	Licensing Agreement between Phoenix Aerospace Inc. & Aerospatiale Helicopter Corp dtd 10-15-81, 10- 19-83 & 5-17-84	Aerospatiale	SA366G Series
Voltage Regulator PAI P/N VR-1010-24-2AD Dwg. No. 095069, Rev L. dtd 6- 30-78, or later FAA- approved rev.	Modification Part	Licensing Agreement between Phoenix Aerospace Inc. & Colt Electronics Co. dtd 1-8-82. STC SA1466CE dtd 12-22-78.	Hawker Siddeley	DH-125-1A, -1A/ 522, -1A/R-522, -3A, -3A/R, -1A/S-522,-3A/RA, -400A and HS-125-600A
Starter Generator Control Unit PAI P/N GC-1010-24-9A Dwg. No. 095232, Rev A, dtd 10-23-84 or later FAA- approved rev.	Aerospatiale Helicopter Corp. P/N 366-D-125- 04	Licensing Agreement between Phoenix Aerospace Inc., & Aerospatiale Helicopter Corp. dtd 5-17-84	Aerospatiale	SA366G Series

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Phoenix Aerospace, Inc., 220 West 80th Terr., P.O. Box 8744, Kansas City, MO 64114-0744

Phoenix Aero.
FAA-Approved
Design Data

Approved
Replacement For

FAA Design
Approval Means

Installation
Make Eligibility
Model

Voltage Regulator
PAI P/N VR-1010-24-
6E Dwg. No. 095158,
Rev H, dtd 12-11-84, or
later FAA-approved rev.

Modification Part

Licensing Agreement
between Phoenix
Aerospace, Inc. & Soloy
Conversions, Ltd. dtd 3-
13-85. STC SA2353NM
dtd 5-22-84, reissued 8-
15-85, Amended 7-17-
84, 1-7-85, 1-23-85, 8-
15-85, 2-18-86.

Cessna U206G, TU206G: S/Ns
U20603522 through
U20604074 (1977)
U206G, TU206G: S/Ns
U20604075 through
U20604649 (1978)
U206G, TU206G: S/Ns
U20602589 and
U20604650 through
U20605309 (1979)
U206G, TU206G: S/Ns
U20605310 through
U20605919 (1980)
U206G, TU206G: S/Ns
U20605920 through
U20606439 (1981)
U206G, TU206G: S/Ns
U20606440 through
U20606699 (1982)
U206G, TU206G: S/Ns
U20606700 through
U20606788 (1983)
U206G, TU206G: S/Ns
U20606789 through
U20606846 (1984)
U206G, TU206G: S/Ns
U20606847 and on
through 1985

Voltage Regulator
PAI P/N VR-1010-24-
2BE Dwg. No. 095161,
Rev Q, dtd 3-20-85, or
later FAA-
approved rev.

Modification Part

Licensing Agreement
between Phoenix
Aerospace Inc. &
Aerospatiale Helicopter
Corp.
dtd 4-8-86.
STC SH7005SW-D
dtd 3-19-86.

Aerospatiale AS355E,
AS355F, AS355F-1

Phoenix Aero.

FAA-Approved

Design DataApproved
Replacement ForFAA Design
Approval MeansInstallation
Make Eligibility
Model

Voltage Regulator PAI P/N VR-1010-24- 1A Dwg. No. 095001 Rev O, dtd 12-16-88 or PAI P/N VR-1010-24- 2A, Dwg. No. 095027, Rev P, dtd 4-12-91, or later FAA- approved rev.	Modification Part	STC SA2511CE dtd 7-24-89 Amended 3-18-91 Amended 10-11-91	Bell	206B & 206A
Generator Control Unit PAI P/N GC-1010-24-3B Dwg. No. 095200, Rev V, dtd 12-16-87, or later FAA- approved rev.	Modification Part	STC SA2570CE dtd 18 Jan 1990	CASA	C-212 Series
Voltage Regulator PAI P/N VR-1010-24- 2A Dwg. No. 095027, Rev P, dtd 4-12-91, or later FAA-approved rev.	Modification Part	STC SA2705CE dtd 16 April 1991 Amended 10-10-91	Gulfstream Aerospace (Aero Commander)	Model 680T, 680V, 680W, 681, 690, 690A, S/N 11100 thru 11226
Voltage Regulator PAI P/N VR-1010- 24-2GA, Dwg. No. 095132 Rev O dtd 4-12- 91 per Western Commander Engineering Report No. 9103-2, Rev B Stamped FAA-approved 1-28-92 or later FAA- approved rev.	Modification Part	STC SA5489NM dtd 10-30-91 Reissued 1-24-92	Gulfstream Aerospace	G-1159 S/N's 1 thru 300 except those with Aircraft Service Change 285 incorporated.

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<u>Phoenix Aero. FAA-Approved Design Data</u>	<u>Approved Replacement For</u>	<u>FAA Design Approval Means</u>	<u>Installation Make</u>	<u>Eligibility Model</u>
Generator Control Unit PAI P/N GC-1010-24-3BI Dwg. No. 095234 Rev. N/C or later FAA- approved rev.	Modification Part	STC SA2704CE dtd 4- 16-91 Amended 3-26-92	Gulfstream Aerospace (Aero Commander)	690A, 690B, 690C, 690D, 695, 695A
Voltage Regulator PAI P/N VR-1010-24-1A Dwg. No. 095001, Rev. P, dtd 9-20-91, or PAI P/N VR-1010-24- 2A Dwg. No. 095027, Rev Q, dtd 9-20-91 or later FAA-approved rev.	Modification Part	STC SA2853CE dtd 10- 7-92 Amended 12-14-92	Air Tractor	AT-400, AT-400A
Voltage Regulator PAI P/N VR-1010-24-1A Dwg. No. 095001, Rev. P, dtd 9-20-91, or PAI P/N VR-1010-24- 2A Dwg. No. 095027, Rev. Q, dtd 9-20-91 or later FAA-approved rev.	Modification Part	STC SA2854CE dtd 10-7-92 Amended 12-14-92	Air Tractor	AT-402, AT-402A, AT-502, AT-502A, AT-503
Voltage Regulator PAI P/N VR-1010-24-1A Dwg. No. 095001, Rev. P, dtd 9-20-91 or later FAA-approved rev.	Bendix P/N 1589-1	Design approved per FAR 21.303(c) FAA letters dtd 9-21-92 and 10-19-92	Ayres Thrush	S2R-T11, S2R-T15, S2R-T34, S2R-T45, and S2R-T65

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Phoenix Aero.

<u>FAA-Approved Design Data</u>	<u>Approved Replacement For</u>	<u>FAA Design Approval Means</u>	<u>Installation Make</u>	<u>Eligibility Model</u>
Generator Control Units PAI P/N GC-1010-24-6A Dwg. No. 095204, Rev. N/C, dtd 7-3-90 and/or PAI P/N GC-1010-24- 6D Dwg. No. 095214, Rev. N/C, dtd 7-27-90, or later FAA-approved rev.	Modification Part	STC SR00061WI dtd 5-10-93 Amended 7-2-93	Bell	206L, 206L-1 206L-3 & 296L-4 with IFR
Generator Control Unit PAI P/N GC-1010-24-6D Dwg. No. 095214, Rev. N/C, dtd 7-27-90, or later FAA-approved rev.	Modification Part	STC SR00083WI dtd 7-20-93	Bell	206L, 206L-1, 206L-3 & 206L-4 without IFR
Voltage Regulator PAI P/N BG-1010- 24-7A Dwg. No. 095198, Rev. A, dtd 1- 18-94, or later FAA- approved rev.	Modification Part	STC ST00173WI dtd 7-20-94	Learjet	35, 35A, 36, 36A
Voltage Regulator PAI P/N VR-1010-24-2AA, Dwg No.095227, Rev N/C, dtd 1-4-88 or later FAA- approved rev.	Ayres Corp. P/N VR-1010-24- 2AA	Licensing agree ment between Ayres Corp. and Phoenix Aerospace, Inc. dtd 6/28/95	Ayres	S2R,S2R-R1340, S2R- R3S, S2R-R1820, S2R- T11, T15, T34, T45, T65, (except for the HGT65), S2R-G1, G5, G10
Generator Control Unit P/N GC-1010-24-5D III, Dwg. No. 095505 dtd 4- 9-93, or later FAA- approved rev.	de Havilland Inc. P/N 8SC0002	Licensing Agreement between Phoenix Aerospace & de Havilland Inc. dtd 5-29- 95	DHC-8	Series 100, 200 & 300

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Phoenix Aero.

<u>FAA-Approved Design Data</u>	<u>Approved Replacement For</u>	<u>FAA Design Approval Means</u>	<u>Installation Make</u>	<u>Eligibility Model</u>
Bus Bar Protection Unit P/N BP-1010-24-8D, Dwg. No. 095216 Rev. B dtd 5-26-95, or later FAA-approved rev.	de Havilland Inc. P/N 8SC0003	Licensing Agreement between Phoenix Aerospace & de Havilland Inc. dtd 5-29- 95	DHC-8	Series 100, 200 & 300
Transformer DC P/N DH1030-24-2-CSI, Dwg. No. 095313 dtd 2- 10-93, or later FAA- approved rev.	de Havilland Inc. P/N 8SC0004	Licensing Agreement between Phoenix Aerospace & de Havilland Inc. dtd 5-29- 95	DHC-8	Series 100, 200 & 300
Inverter 400 HZ, P/N DH-1030-24-600-CS IIB, Dwg. No. 095165 Rev. AB dtd 1-3-92, or later FAA-approved rev.	de Havilland Inc. P/N 8SC0009	Licensing Agreement between Phoenix Aerospace & de Havilland Inc. dtd 5-29- 95	DHC-8	Series 100, 200 & 300
Inverter Warning Control Box, P/N DH-1030-24- 3-CS IID, Dwg. No. 095174 Rev. F dtd 3-27- 87, or later FAA- approved rev.	de Havilland Inc. P/N 8SC0010	Licensing Agreement between Phoenix Aerospace & de Havilland Inc. dtd 5-29- 95	DHC-8	Series 100, 200 & 300
SPU A/C Power Control Unit, P/N DH-1020-115- 3-CSI, Dwg. No. 095430 dtd 8-11-93, no rev. or later FAA-approved rev.	de Havilland Inc. P/N 8SC0629	Licensing Agreement between Phoenix Aerospace & de Havilland Inc. dtd 5-29- 95	DHC-8	Series 100, 200 & 300
Bleed Valve Control Unit, P/N DH-1030-24- 1A-II, Dwg. No. 095229 dtd 7-5-91, or later FAA-approved rev.	Modification Part	Licensing Agreement between Phoenix Aerospace & de Havilland Inc. dtd 5-29- 95	DHC-8	Series 100, 200 & 300

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Phoenix Aero.

FAA-Approved

Design Data

Approved

Replacement For

FAA Design

Approval Means

Installation

Make

Eligibility

Model

Inverter 400 HZ P/N
DH-1030-24-1200-
CSIIB, Dwg. No.
095075 Rev U dtd 1-8-
92, or later FAA-
approved rev.

de Havilland Inc.
P/N 7SC0166

Licensing Agreement
between Phoenix
Aerospace & de
Havilland Inc. dtd 5-29-
95

DHC-7 Series 100, 150

Paralleling Control Box
P/N DH-1030-115/3-
1200-SSIID, Dwg. No.
095255 Rev Q, dtd 6-30-
95, or later FAA-
approved rev.

de Havilland Inc.
P/N 7SC0167-
003

Licensing Agreement
between Phoenix
Aerospace & de
Havilland Inc. dtd 5-29-
95

DHC-7 Series 100, 150

END OF LISTING

de HAVILLAND Inc.

SUPPORT DATA FOR FAA PARTS MANUFACTURING APPROVAL

Manufacturer's Name Phoenix Aerospace Inc.
 220 W. 80th Terrace
 Kansas City, MO
 U.S.A. 64114

COLUMN 1 Manufacturer's Part Number	COLUMN 2 Nomenclature	COLUMN 3 DHI Part Or Specification Number	COLUMN 4 Design Data/ Approval FAA (DOT)	COLUMN 5 Eligibility Aircraft Type And Series
DH-1030-24-1200-CS IIB	Inverter, 400 Hz	7SC0166	A20EA (A20)	DHC-7 Series 100, 150
DH-1030-115/3-1200-SS IID	Paralleling Control Box	7SC0167-003	A20EA (A20) A13NM (A142)	DHC-7 Ser, 100,150 DHC-8 Series 100, 200, 300
GC-1010-24-5D III	Generator Control Box	8SC0002	A13NM (A142)	DHC-8 Series 100, 200, 300
BP-1010-24-8D	Bus Bar Protection Unit	8SC0003	A13NM (A142)	DHC-8 Series 100, 200, 300
DH-1030-24-2-CS I	Transformer, DC	8SC0004	A13NM (A142)	DHC-8 Series 100, 200, 300
DH-1030-24-600-CS IIB	Inverter, 400 Hz	8SC0009	A13NM (A142)	DHC-8 Series 100, 200, 300
DH-1030-24-3-CS IID	Inverter Warning Control Box	8SC0010	A13NM (A142)	DHC-8 Series 100, 200, 300
DH-1020-115-3-CS I	SPU AC Power Control Unit	8SC0629	A13NM (A142)	DHC-8 Series 100, 200, 300
DH-1080-24-1A-II	Bleed Valve Control Unit	N/A	A13NM (A142)	DHC-8 Series 100, 200, 300

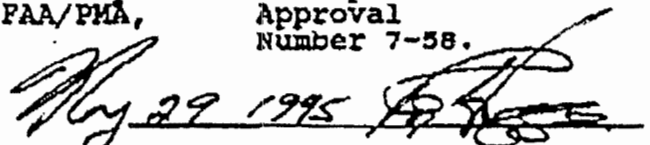
It is hereby Certified that the components listed herein are included as part of the approved Design Data for de Havilland Inc. Models as specified in column (5) herein.

Approved:

de Havilland Inc
 Garratt Boulevard
 Downsview, Ontario
 Canada, M3K 1Y5

The above named Supplier is hereby authorized to use the approved Type Design Data noted in column (4) herein to manufacture replacement components (Column 2). This Certification may be used as part of the application for FAA/PMA, (Federal Aviation Regulations 21.303.)

Transport Canada
 Approval
 Number 7-58.


 Date May 29 1995 Approved Signatory

cc: 1 copy Materials Manager (I. McDonald) MS# N11-30
 1 copy Engineering (F. Cicci) MS# N18-03
 1 copy Q.A. Director (N. Sist - Secretary)
 1 copy Q.A. Tech

de HAVILLAND Inc.

SUPPORT DATA FOR FAA PARTS MANUFACTURING APPROVAL

Manufacturer's Name Phoenix Aerospace Inc.
220 W. 80th Terrace
Kansas City, MO
U.S.A. 64114

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5
Manufacturer's Part Number	Nomenclature	DHI Part or Specification Number	Design Data/ Approval FAA (DOT)	Eligibility Aircraft Type And Series
DH-1030-24-1200-CS IIB	Inverter, 400 Hz	7SC0166	A20EA (A120)	DHC-7 Series 100, 150
DH-1030-115/3-1200-SS IID	Paralleling Control Box	7SC0167-003	A20EA (A120)	DHC-7 Series 100, 150
/				

It is hereby Certified that the components listed herein are included as part of the approved Design Data for de Havilland Inc. Models as specified in column (5) herein.

Approved:

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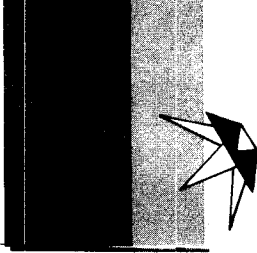
Transport Canada
Approval
Number 7-58.

JUNE 1/95

Date

Approved Signatory

cc: 1 copy Materials Manager (T. McDonald) MS# N11-30
1 copy Engineering (F. Cicci) MS# N18-03
1 copy Q.A. Director (N. Sist - Secretary)
1 copy Q.A. Tech



Phoenix Aerospace Inc.

220 WEST 80TH TERRACE
P.O. BOX 8744
KANSAS CITY, MISSOURI 64114-0744

FAA APPROVED REPAIR STATION NO. 363-1
VENDOR CODE IDENT NO. 29632

816 333-3400 TELEX 424183 PHXAEROINC UD

Fracas19

23 April 2003
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**PHOENIX AEROSPACE INC.
QUARTERLY FRACAS REPORT SUMMARY
deHAVILLAND DASH-8 SERIES 100,200,&300 SYSTEMS
FROM BOMBARDIER QUARTERLY FRACAS REPORT PSM 1-8/123-20
ISSUE 19**

Total accumulative hours (March 2002)
Series 100 (292 A/C).....7,985,450
Series 200 (94 A/C).....845,012
Series 300 (185 A/C).....2,645,191
Totals (571 A/C).....11,475,653

Dispatch Reliability (12 month avg. April 01-March 02).....98.9%
Schedule Completion (12 month avg. April 01-March 02).... 99.2 %

UR (unscheduled removals), URR (unscheduled removal rates), and MTBUR (mean time before unscheduled removal) histories for the 12 month period ending March 2002 are reflected in the following data. The Target is a standard set by BRAD for the expected reliability of the particular component.

DH-1030-24-600-CS IIB Transverter (ATA #242006)

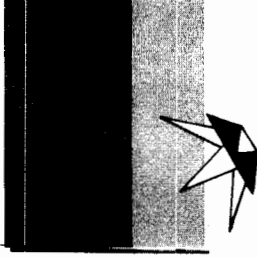
	UR	URR	MTBUR (hrs.)
Target	—	0.3000	3333
100	185	0.1314	7611 (2.3 times better than Target)
200	35	0.0678	14744 (4.4 times better than Target)
300	32	0.0431	23200 (6.9 times better than Target)

DH-1030-115/3-1200-SS IID Paralleling Control Unit (ATA #242007)

	UR	URR	MTBUR (hrs.)
Target	—	0.1500	6667
100	14	0.0298	33525 (5.0 times better than Target)
200	2	0.0166	86010 (12.9 times better than Target)
300	3	0.0121	82488 (12.4 times better than Target)

DH-1030-24-3-CS IID Inverter Warning Unit (ATA #242008)

	UR	URR	MTBUR (hrs.)
Target	—	0.0500	20000
100	12	0.0107	93457 (4.7 times better than Target)
200	2	0.0116	86207 (4.3 times better than Target)
300	1	0.0040	250000 (12.5 times better than Target)



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BP-1010-24-8E Bus Bar Protection Unit (ATA # 243103)

	UR	URR	MTBUR (hrs.)
Target	—	0.1200	8333
100	10	0.0213	46935 (5.6 times better than Target)
200	4	0.0233	43005 (5.2 times better than Target)
300	6	0.0242	41244 (4.9 times better than Target)

DH-1020-115-3-CS II SPU AC Power Control Unit (ATA #245001)

	UR	URR	MTBUR (hrs.)
Target	—	—	— (No URR or MTBUR established)
100	0	—	— (No reported UR's in approx. 601,200 series 100 fleet hours flown.)
200	2	0.0116	86207
300	3	0.0121	82645

DC Generator Control Unit (ATA #243002)

Bombardier, deHavilland of Canada, utilizes two makes of Generator Control Units in it's production of the Dash-8 aircraft. One is the Phoenix Aerospace Inc. GC-1010-24-5D III and the other is the Lucas 51539-008. The exact ratio of aircraft using each is not revealed in the FRACAS Report. (Shipments to Bombardier of the Phoenix Aerospace Inc. GC-1010-24-5D III would equip 319 of the 571 total aircraft in the fleet.) Some A/C utilize 2 units and those with APU's use 3 units. (The average per A/C = 2.32.)

	UR	URR	MTBUR (hrs.)
Target	—	0.0690	14493
100	187 (Lucas) 9 (Phoenix)	0.1785	5602 (61% below Target levels) (only 4.6% of UR's were Phoenix)
200	68 (Lucas) 8 (Phoenix)	0.1908	5241 (64% below Target levels) (only 10.5% of UR's were Phoenix)
300	50 (Lucas) 27 (Phoenix)	0.1344	7440 (49% below Target levels) (only 35% of UR's were Phoenix)

12 month total UR's of the DC Generator Control Units for 100, 200, & 300 series aircraft combined.

Lucas 51539-008	305 (87.4% of total UR's)
Phoenix GC-1010-24-5D III	<u>44</u> (12.6% of total UR's)
Total	349



Phoenix Aerospace Inc.

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ACCUMULATIVE TOTALS SINCE JANUARY 1996 (6.25 YEARS)

DH-1030-24-600-CS IIB Transverter (ATA #242006)

	UR	URR	MTBUR (hrs.)
Target	—	0.3000	3333
100	988	0.1091	9166 (2.8 times better than Target)
200	75	0.0389	25706 (7.7 times better than Target)
300	197	0.0548	18248 (5.5 times better than Target)

DH-1030-115/3-1200-SS IID Paralleling Control Unit (ATA #242007)

	UR	URR	MTBUR (hrs.)
Target	—	0.1500	6667
100	111	0.0367	27248 (4.1 times better than Target)
200	11	0.0143	69930 (10.5 times better than Target)
300	19	0.0155	64516 (9.7 times better than Target)

DH-1030-24-3-CS IID Inverter Warning Control Unit (ATA #242008)

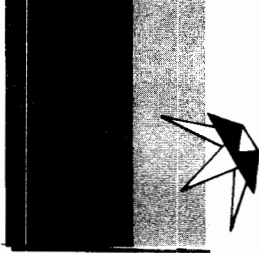
	UR	URR	MTBUR (hrs.)
Target	—	0.0500	20000
100	20	0.0099	101010 (5.0 times better than Target)
200	2	0.0026	384615 (19.0 times better than Target)
300	3	0.0024	416666 (20.8 times better than Target)

BP-1010-24-8E Bus Bar Protection Unit (ATA #243103)

	UR	URR	MTBUR (hrs.)
Target	—	0.1200	8333
100	80 (Lucas) 6 (Phoenix)	0.0284	35211 (4.2 times better than Target) (only 7% of UR's were Phoenix)
200	7 (Lucas) 3 (Phoenix)	0.0130	76923 (9.2 times better than Target) (only 30% of UR's were Phoenix)
300	38 (Lucas) 5 (Phoenix)	0.0350	28571 (3.4 times better than Target) (only 12% of UR's were Phoenix)

DH-1020-115-3-CS II SPU AC Power Control Unit (ATA #245001)

	UR	URR	MTBUR (hrs.)
Target	—	—	— (No URR or MTBUR established)
100	4	0.0013	769231
200	13	0.0169	59172
300	12	0.0098	102041



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DC Generator Control Unit (ATA #243002)

Accumulated totals of UR's of the DC Generator Control Units for 100, 200 ,& 300 series aircraft combined.

Lucas 51539-008	1976 (91% of total UR's)
Phoenix GC-1010-24-5D III	<u>191</u> (9% of total UR's)
Total	2167

Combined FRACAS reporting makes specific reliability figures on the Phoenix Aerospace Inc. GC-1010-24-5D III DC GCU difficult to determine. It is obvious that it's reliability is far superior to the Lucas option, since over 40% of the fleet are Phoenix equipped, and these account for only 9% of the reported UR's.

The Bombardier, deHavilland, FRACAS Reporting Program is a comprehensive collection and analysis of information from the DASH-8 fleet operations around the world. The unscheduled removal figures, included in the 12 month history information quoted in this summary, were from field reports of operators participating in the program. The following data shows the extent of fleet operations represented in the 12 month figures:

Operators participating.....41

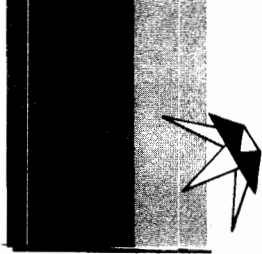
Series	A/C Qty	Approx. Hours	% of Fleet
-100	234	482,184	80.2%
-200	88	182,564	93.6%
-300	138	274,225	74.6%

The FRACAS Report Program does not attempt to establish the portion of UR's that are actually failures. However, a study completed by Northrop Aviation established a standard of ratios between UR's incurred by actual component faults and those UR's that later were deemed unnecessary. These ratios varied by the category of system they were incorporated. The Phoenix Aerospace Inc. equipment in this summary could be listed under either of two Northrop categories; one is "Electrical" and the other "Electronic", as listed below.

Electrical Equipment Category
 Only 8 of 10 UR's are found to be actual failures. (80%)
 Failure Rate = .8 X Unscheduled Removal Rate
 Mean Time Before Failure = MTBUR

.8

A 10,000 hour MTBUR would equal an average MTBF of 12,500 hours.



Phoenix Aerospace Inc.

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Electronic Equipment Category

Only 6 of 10 UR's are found to be actual failures. (60%)

Failure Rate = .6 X Unscheduled Removal Rate

Mean time before Failure = MTBUR

.6

A 10,000 hour MTBUR would equal an average MTBF of 16,667 hours.

Under either classification, the recorded MTBUR's for Phoenix Aerospace Inc. equipment in the report reflect high reliability in service.

As the data compiled by Bombardier, deHavilland of Canada, graphically indicates, Phoenix Aerospace Inc. equipment is a major positive contributor to the excellent 98.9% Dispatch Reliability and the 99.2% Schedule Completion record of the DASH-8 fleet. It is evident that further improvement in these areas could be realized with increased utilization of the Phoenix Aerospace Inc. GC-1010-24-5D III DC GCU.

DC VOLTAGE REGULATORS

PAI P/N VR SERIES	EQUIPMENT REPLACED	APPLICATIONS	PAI STC NUMBER	QTY
VR-1010-24-1A	BENDIX 1589-1	AGUSTA/BELL AB-206A & AB-206B	SA2511CE 6-16-89	1
	BENDIX 1589-1	AIR TRACTOR AT-400, AT-400A	SA2853CE 10-7-92	1
	BENDIX 1589-1	AIR TRACTOR 402, AT-402A, AT-502, AT-502A, AT-503	SA2854CE 10-7-92	1
	BENDIX 1589-1	BEECHCRAFT QUEEN AIR A80, B80		2
	*	BEECHCRAFT C-12A & U-21		2
	LELAND CSV1152-10, CSV1105-2, CSV1105-20	BEECHCRAFT KING AIR C90	BEECHCRAFT SER. BUL NO. 076-354, REV.II	2
	*	BEECHCRAFT SUPER KING AIR 200T		2
	BENDIX 1589-1	BELL 206A & 206B	SA2511CE 3-18-91	1
	BENDIX 1589-1	de HAVILLAND DHC-2 BEAVER, DHC-3 OTTER		1
	*	de HAVILLAND DHC-6 100, 200 TWIN TURBO OTTER		2
	BENDIX 1589-1	GULFSTREAM GI, GI-C		2
	BENDIX 1589-1	HILLER FH-1100		1
	LAPEC 51528-00R	LOCKHEED JETSTAR I 1329-6, 1329-8		4
	BENDIX 1589-1	PILATUS PC-6/B-H2 TURBO PORTER		1
	*	SIKORSKY S-61N		2
AGUSTA/SIKORSKY AS-61N1 SILVER			2	
TELEDYNE RYAN BQM34 FIREBEE DRONE			1	
VR-1010-24-1AA	BENDIX 1589-1	AYERS S-2R TURBO THRUSH	PMA DESIGN 9-21-92	1
VR-1010-24-1AS	BENDIX 1589-1	SABRELINER 265-40, 265-60, 265-70		2
	G.E. CR2795B105A1	AERO COMMANDER 1121 JET COMMANDER		2
VR-1010-24-1C	BENDIX 1589-1	LEARJET 23, 24, 24A, 24B, 24B-A, 25		2
VR-1010-24-2A		AEROSPATIALE SNIAS AS332A SUPER PUMA	SH250NE 4-06-84	1
	BENDIX 1589-1	AIR TRACTOR 402, AT-402A, AT-502, AT-502A, AT-503	SA2854CE 10-7-92	1
	BENDIX 1589-1	AIR TRACTOR AT-400, AT-400A	SA2853CE 12-14-92	1
	BENDIX 1589-1	BELL 206A & 206B	SA2511CE 6-16-89	1
		BOEING 707 (APU/PATS) DUAL SYSTEM	SA1168EA 6-29-81	1
		BOEING 707 (APU/PATS) TRIPLE SYS.	SA1240EA 5-19-81	1
	*	CESSNA CITATION III-VII (APU/PATS)	SA289NE 9-5-84	1
	BENDIX 1589-1	CONVAIR CV-580		2
	BENDIX 1589-1	CONVAIR 880 (APU/PATS)	SA1146EA 5-8-79	1
	*	de HAVILLAND DHC-6 SERIES 300 TWIN TURBO OTTER		2
	BENDIX 1589-1	GRUMMAN MALLARD		2
	GENERAL ELECTRIC CR2795B105A1	GULFSTREAM AERO COMMANDER 680T, 680V, 680W 681, 690, 690A (S/N 11100-11226)	SA2705CE 4-16-91	2
	LUCAS-ROTAX U6106	HAWKER SIDDELEY HS-748		2

DC VOLTAGE REGULATORS

PAI P/N VR SERIES Cont.	EQUIPMENT REPLACED	APPLICATIONS	PAI STC NUMBER	QTY
VR-1010-24-2AD	LUCAS-ROTAX U6818 OR U6820	HAWKER SIDDELEY DH-125-1A, -1A/522, -1A/R-522, -3A, -3A/R, -1A/S-522, -3A/RA, -400A, -600A	SA1466CE 12-22-78	2
VR-1010-24-2B	*	BEECHCRAFT B99 AIRLINER & BARON		2
VR-1010-24-2BE	LAPEC 51565-000, -000R	AEROSPATIALE AS355E TWINSTAR, AS355F, & AS355F-1 ECUREUIL 2	SH7005SW-D 3-19-86	2
	LAPEC 51565-000, -000R	MBB B0-105		2
	LAPEC 51565-000	NURTANIO NBO 105		2
	LAPEC 51565-000, -000R	MU-2, MARQUISE & SOLITAIRE	MITSUBISHI SER. BUL. SR024/24-001 REV. A	2
	LAPEC 51565-000	N24A NOMAD (AUSTRALIA)		2
VR-1010-24-2C LJ P/N 6608090-1	*	LEARJET 24C, 24D, 24D-A, 24E, 24F, 24F-A, 25C, 25D, 25F, 28, 29		2
SB-1010-24-2E	*	SHORTS SC.7 Srs 3 SKYVAN		2
	*	SCHWEIZER SUPER AG-CAT		1
VR-1010-24-2GA	BENDIX 25B12-1-A	GULFSTREAM GII (G-1159)	SA5489NM 10-30-91	2
VR-1010-24-4A MS18071-1A	BENDIX 25B23-4B			
	LELAND CSV 1152-1AB			
VR-1010-24-4B MS18071-2	BENDIX 25B23-1B			
	LELAND CSV 1152-2AB			
VR-1010-24-4C MS18071-11	BENDIX 25B23-16	BELL UH-1N		2
	LELAND CSV 1152-11AB			
VR-1010-24-4D MS18071-12	BENDIX 25B23-9A	BELL UH-1D, UH-1F, UN-1H, UH-1N, UH-1P		2
	LELAND CSV 1152-12AB			
	BENDIX 25B23-9A	CESSNA T-37B		2
	LELAND CSV 1152-12AB			
VR-1010-24-6E HH-423-035 SC 700-1052-1	AA&E 650692C	BREDANARDI NH-500D		1
	ELECTRO-DELTA VR1000	HUGHES 500, 500C, 500D, 500E, 530E, 500M		
	HH 369A4652, HH-423-035	KAWASAKI 500D		
	LSI 39-371-105-000			
	*	CESSNA TU AND U206G SOLOY CORP. BEECHCRAFT BONANZA A36 w/ALLISON 1B17F/450 HP TRADEWIND TURBINES	SA2353NM 3-13-85	1
BG-1010-24-7A	BENDIX 25B18-4E	LEARJET 35, 35A, 36, 36A, 21A w/BENDIX P/N 30B107-19A 400 AMP BRUSHLESS GENERATOR	STC PENDING	2

GENERATOR CONTROL UNITS

PAI P/N GCU's	EQUIPMENT REPLACED	APPLICATIONS	PAI STC NUMBER	QTY
GC-1010-24-3B	LAPEC 51509-002	AEROSPATIALE MAGISTER CM.170		2
	LAPEC 51509-002R	AGUSTA A109A		2
	LAPEC 51509-002R	AGUSTA BELL AB-212, AB-412		2
	LAPEC 51509-002R	AHRENS AR404		4
	LAPEC 51509-002A,-002R	C.A.S.A. C-212, -100, -200, -300	SA2570CE 1-18-90	2
	LAPEC 51509-002	DORNIER 228-100, -200		2
	LAPEC 51509-002B,-002R	FAIRCHILD SA227-AC, SA227-TT METRO III AIRLINERS		2
	LAPEC 51509-002A,-002R	LOCKHEED 1329-23 JETSTAR II	SA1596CE 6-6-80	4
	LAPEC 51509-002R	MBB/KAWASAKI BK117		2
	LAPEC 51509-002, -002R	NURTANIO NC-212		2
GC-1010-24-3B I	LAPEC 51530-007B	GULFSTREAM AERO COMMANDER 690A, 690B, 690C, 690D, 695, 695A	SA2704CE 4-16-91	2
GC-1010-24-5B	LAPEC 51509-006BR	CESSNA CITATION I		2
	LAPEC 51509-006BR	CESSNA CITATION II		2
	LAPEC 51509-006	DORNIER DO34 KIEB.		1
GC-1010-24-5C	LAPEC 51509-006C	HAWKER SIDDELEY DH-125-700		2
	LAPEC 51509-006C	C.A.S.A. C-101 AVIOJET		1
	*	CONAIR TURBO FIRECAT		2
	LAPEC 51509-006C	SABRELINER 65		2
GC-1010-24-5D III	LAPEC 51539-008D	de HAVILLAND DASH 8		2
GC-1010-24-6A	BELL 214-075-187-003	BELL 206L, L-1, L-3, L-4	SR00061WI 5-10-93 (MAIN WITH IFR)	1
	TEMPO 97499			
	LAPEC 51530-006, -006A			
GC-1010-24-6B II	*	BELL 206L-4 TWINRANGER SOLOY CORP.		2
GC-1010-24-6C	LAPEC 51530-008	AEROSPATIALE AS-355		2
GC-1010-24-6D	BELL 206-075-447-007	BELL 206L, L-1, L-3, L-4	SR00061WI 5-10-93 (AUX. WITH IFR)	1
	AMF CSV 1829-7			
	LELAND CSV 2508-1			
	PACIFIC EL. 473-1, 475-1		SR00083WI 7-20-93 (MAIN WITHOUT IFR)	
	TEMPO 94123-7			
	G.E. 3S2060DC168C1B			
LAPEC 51509-006				
GC-1010-24-9A	*	AEROSPATIALE SA-366G U.S.C.G. HH-65A DOLPHIN	TC H10EU 7-26-83	1

TABLE OF CONTENTS

PART A - GENERAL

		HQ CONTROL DATE	EFFECTIVE DATE	AMENDMENT NUMBER
1	Issuance and Applicability	01/21/00	03/15/2000	0
2	Definitions and Abbreviations	09/03/99	03/15/2000	0
3	Ratings and Limitations	12/16/98	03/15/2000	0
4	Summary of Special Authorizations and Limitations	09/23/98	03/15/2000	0
5	Exemptions	02/20/98	(Not Used)	
7	Designated Persons	02/20/98	03/28/2000	0

A001. Issuance and Applicability

HQ Control: 01/21/00
HQ Revision: 02a

a. These operations specifications are issued to Phoenix Aerospace, Inc., a Domestic Repair Station, pursuant to Title 14 Code of Federal Regulations (CFR) Section 145.11. The repair station certificate holder shall conduct operations in accordance with CFR Part 145 and these operations specifications.

The certificate holder's address:

Fixed Location:
220 West 80th Terrace
Kansas City, MO 64114

Mailing Address:
220 West 80th Terrace
Kansas City, MO 64114

b. The holder of these operations specifications is the holder of Certificate Number SL2R165L and shall hereafter be referred to as the certificate holder.

c. These operations specifications are issued as part of this Repair Station Certificate, and are in effect as of the Date Approval is effective. This certificate and operations specifications shall remain in effect until the domestic repair station certificate is surrendered, suspended, or revoked.

Delegated authorities:

1. Issued by the Federal Aviation Administration.
2. These Operations Specifications are approved by direction of the Administrator.



Allan R. Martens

Principal Avionics Inspector

CE05

3. Date Approval is effective: 3/15/00 Amendment Number: 0
4. I hereby accept and receive the Operations Specifications in this paragraph.



Bernard Kniffin

General Manager

Date: 3/15/00

A002. Definitions and Abbreviations

HQ Control: 9/3/99

HQ Revision: 03a

Unless otherwise defined in these operations specifications, all words, phrases, definitions, and abbreviations have identical meanings to those used in the Title 14 Code of Federal Regulations (CFR) Regulations and Title 49 United States Code as cited in Public Law 103-272, as amended. Additionally, the definitions listed below are applicable to operations conducted in accordance with these operations specifications.

**Bilateral Aviation
Safety Agreement
(BASA)**

An executive agreement concluded between the United States and a foreign country for the purpose of promoting aviation safety; also known as an Agreement for the Promotion of Aviation Safety.

Certificate Holder

In these operations specifications the term "certificate holder" shall mean the holder of the repair station certificate described in these operations specifications in Part A paragraph A001 and any of its officers, employees, or agents used in the conduct of operations under this certificate.

CFR

Code of Federal Regulations

Class rating

As used with respect to the certification, ratings, privileges, and limitation of aircraft within a category having similar operating characteristics.

**Domestic Repair
Station
Exemption**

A certificated repair station located in the United States.

An authorization that permits an alternate means of compliance with a FAR. The exemption must meet the procedural requirements of CFR 14, Part 11.

FAA Form 8000-4-1

The FAA Form 8000-4-1 has been replaced with the form contained within this operations specifications application (OPSS) for the generation of the 14 CFR Part 145 Repair Station Operations Specifications.

Foreign Repair Station

A certificated repair station located outside of the United States.

**Geographic
Authorization**

An approval provided to a foreign repair station to perform maintenance support under contract for a U.S. air carrier, or operator of U.S. - registered aircraft under FAR Part 129, at a location other than the repair station facility. A geographic authorization is issued by the FAA to respond to the need of a U.S. air carrier or FAR Part 129 operator for maintenance at a station where the frequency and scope of that maintenance does not warrant permanently staffing and equipping the station for its accomplishment.

IPM

Inspection Procedures Manual

JAA

Joint Aviation Authority

A003. Ratings and Limitations

HQ Control: 12/16/98
HQ Revision: 00c

The Certificate Holder is authorized the following Ratings and/or Limitations:

Class Ratings

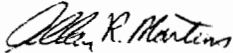
Limited Ratings

<u>Rating</u>	<u>Manufacturer</u>	<u>Make / Model</u>	<u>Limitations</u>
Accessories	Phoenix Aerospace	All products as listed in the Phoenix Aerospace, Inc., Inspection Procedures Manual (Section 1, Page 102).	

Limited Ratings - Specialized Services

<u>Rating</u>	<u>Specifications</u>	<u>Limitations</u>
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1. Issued by the Federal Aviation Administration.
2. These Operations Specifications are approved by direction of the Administrator.



Allan R. Martens

Principal Avionics Inspector

CE05

3. Date Approval is effective: 3/15/00 Amendment Number: 0
4. I hereby accept and receive the Operations Specifications in this paragraph.


Bernard Kniffin

General Manager

Date: 3/15/00

Limited Rating

Rating issued to repair stations for the performance of maintenance on particular makes and models of airframes, powerplants, propellers, radios, instruments, accessories, and/or parts.

**Limited Ratings -
Specialized Services**

Rating issued for a special maintenance function when the function is performed in accordance with a specification or data acceptable to the Administrator.

Maintenance

The inspection, overhaul, repair, preservation, and the replacement of parts, but excludes preventative maintenance.

**Maintenance
Implementation
Procedures (MIP)
MOE**

Procedures for implementing the provisions of a BASA that apply to maintenance.

Maintenance Organization Exposition - Pertains to Joint Aviation Authority member countries that use an MOE in place of an Inspection Procedures Manual.

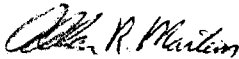
**Preventative
Maintenance**

As defined in Appendix A subparagraph (c) of 14 CFR Part 43, maintenance that does not involve complex assembly operations.

**Substantial
Maintenance**

Any activity involving a C-check (routine airframe maintenance) or greater maintenance; any engine maintenance requiring case separation or teardown; and/or major alterations or major repairs performed on airframes, engines, or propellers.

-
1. Issued by the Federal Aviation Administration.
 2. These Operations Specifications are approved by direction of the Administrator.



Allan R. Martens

Principal Avionics Inspector

CE05

3. Date Approval is effective: 3/15/00 Amendment Number: 0
4. I hereby accept and receive the Operations Specifications in this paragraph.



Bernard Kniffin

General Manager

Date: 3/15/00

A004	Summary of Special Authorizations and Limitations	HQ Control	09/23/98
		HQ Revision	010

a. The certificate holder, in accordance with the reference paragraphs, is authorized to:

**Reference
Paragraphs**

b. The certificate holder is not authorized and shall not:

Use Exemptions.

Perform maintenance in accordance with foreign repair station geographic authorizations.

Perform work at a place other than the repair station fixed location.

-
1. Issued by the Federal Aviation Administration.
 2. These Operations Specifications are approved by direction of the Administrator.



Allan R. Martens

Principal Avionics Inspector

CE05

3. Date Approval is effective: 3/15/00 Amendment Number: 0
4. I hereby accept and receive the Operations Specifications in this paragraph.



Bernard Kniffin

General Manager

Date: 3/15/00

A007. Designated Persons

HQ Control 02/20/98
HQ Revision 010

a. The personnel listed in the following table are designated to officially apply for and receive operations specifications for the certificate holder indicated below.

Title	Name	Parts Authorized
General Manager	Bernard Kniffin	A
Quality Assurance Manager	Charles F. Bradford	A
Chief Inspector	Paul R. Trimmer	A

1. Issued by the Federal Aviation Administration.
2. These Operations Specifications are approved by direction of the Administrator.


Allan R. Martens

Principal Avionics Inspector

CE05

3. Date Approval is effective: 3/28/00
4. I hereby accept and receive the Operations Specifications in this paragraph.

Amendment Number: 0


Bernard Kniffin

General Manager

Date: 3/28/00

UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

Air Agency Certificate

Number SL2R165L

This certificate is issued to

Phoenix Aerospace, Inc.

whose business address is

**220 West 80th Terrace
Kansas City, Missouri 64114**

*upon finding that its organization complies in all respects
with the requirements of the Federal Aviation Regulations
relating to the establishment of an Air Agency, and is
empowered to operate an approved* **Repair Station.**

with the following ratings:

Limited - Accessories

*This certificate, unless canceled, suspended, or revoked,
shall continue in effect* **indefinitely.**

By direction of the Administrator

Date issued:

October 5, 1983

Walter J. Hutchings

Walter J. Hutchings, Acting Manager, KC-FSDO

**This Certificate is not Transferable, AND ANY MAJOR CHANGE IN THE BASIC FACILITIES, OR IN THE LOCATION THEREOF,
SHALL BE IMMEDIATELY REPORTED TO THE APPROPRIATE REGIONAL OFFICE OF THE FEDERAL AVIATION ADMINISTRATION**

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both

PHOENIX AEROSPACE INC. STANDARD WARRANTY

1. Sellers Standard Warranty

(a) Phoenix Aerospace, Inc. herein called Seller, warrants that each unit delivered shall, at the time of delivery thereof to Buyer or Buyer's customers, be free from defects in material and workmanship and from defects or faults in design in view of the state of the art at the time of design thereof. Any defect must have become apparent and Buyer must have notified Seller thereof within twenty-four (24) months after installation in aircraft, not to exceed thirty (30) months after date of manufacture on unit nameplate. The extent of Seller's liability is limited to the repair, replacement, overhaul, or modification of any defective unit.

(b) Seller's obligation hereunder is conditioned upon the return as soon as practicable of the defective unit with all transportation charges prepaid to Seller in Kansas City, Missouri. Returned units must be accompanied by properly authorized Purchase Order, specifying the nature of the defect, if known, and containing reasonable proof to Seller that the defect is due to a matter embraced within Seller's warranty. An allowance will be made for inbound transportation charges in the Continental United States, but inbound transportation charges are the responsibility of Buyer outside the limits of the Continental United States. Overhauled or repaired units will be returned via air, transportation charges prepaid to destination anywhere in the world. Removal of the unit from any aircraft and reinstallation shall be at Buyer's expense.

(c) The warranty hereunder shall not apply to any unit installed in any Aircraft if such Aircraft shall not have been operated in accordance with the Federal Aviation regulations issued by the Federal Aviation Administration, or if such unit shall not have been operated or maintained in accordance with seller's instructions applicable to such unit, or if such unit shall have been repaired, altered or modified without Seller's approval, or operated with an accessory or part not authorized for use therewith, or if such unit shall have been operated subsequent to its involvement in an accident, or if the unit shall have been subject in any way to improper operation, maintenance, repair, alteration or modification.

(d) THE WARRANTY AND THE OBLIGATIONS AND LIABILITIES OF SELLER HEREUNDER ARE EXCLUSIVE AND IN SUBSTITUTION FOR AND BUYER HEREBY WAIVES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ARISING BY LAW OR OTHERWISE (INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTY OR MERCHANTABILITY, ANY IMPLIED WARRANTY ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING OR USAGE OF TRADE, ANY IMPLIED WARRANTY OF FITNESS, AND ANY OBLIGATION OF SELLER WITH RESPECT TO INCIDENTAL OR CONSEQUENTIAL DAMAGES), AND SHALL NOT BE EXTENDED, ALTERED OR VARIED EXCEPT BY A WRITTEN INSTRUMENT SIGNED BY SELLER AND BUYER.

2. General Instructions

(a) Overhaul, modification or repair of all Phoenix Aerospace units is authorized only at Seller's facility. Any overhaul, repair, alteration or modification without Seller's approval will negate or void the terms of Seller's Standard Warranty stated herein. Units in need of repair should be shipped directly to:

Phoenix Aerospace Inc.
220 West 80th Terrace
Kansas City, Missouri 64114
U.S.A.

Units in warranty are repaired at the factory under the terms and conditions of Seller's Standard Warranty at no charge. There will be a charge imposed for Units returned within the warranty period which are found not to be defective or for a defect found not to be included within Seller's Standard Warranty or which have been removed or returned as a result of any program of preventive maintenance.

(b) Units out of warranty are repaired at the factory at Seller's standard charge in effect at the time of receipt of unit. Inbound and outbound transportation charges are the responsibility of the Buyer.

PHOENIX AEROSPACE INC.