



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

**Small Airplane Directorate
Atlanta Manufacturing
Inspection District Office**
1895 Phoenix Blvd., Suite 225
Atlanta, Georgia 30349

October 22, 2008

Supersedes Letter Dated June 20, 2008

Aircraft Battery Shop, LLC
163 Business Park Dr., Suite 7
Lebanon, TN 37090

PQ4009CE

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

We found the design of your part meets the regulatory requirements for airworthiness applicable to the eligible products listed in the attached supplement. Also, per Title 14 CFR 21.303(h), we found you have the required fabrication inspection system (FIS) at your 163 Business Park Dr. address in Lebanon, TN. Accordingly, we grant you parts manufacturer approval (PMA) to produce the replacement parts listed in the enclosed supplement #1. These parts must conform to the approved designs. Report any future minor changes in the part designs to us in an agreed upon manner and timeframe. However, we must approve any changes to critical or life-limited parts or any major design changes before you can implement them.

The following terms and conditions are applicable to this approval:

1. The manufacturer's fabrication inspection system, methods, procedures and manufacturing facilities, including your suppliers, are subject to FAA surveillance or investigations. Accordingly, the manufacturer, must advise their suppliers that their facilities are also subject to FAA surveillance and investigation.
2. The manufacturer must notify our district office (Atlanta Manufacturing Inspection District Office, 1895 Phoenix Blvd. Suite 225, Atlanta, GA 30349) in writing within 10 days from the date the manufacturing facilities at which parts are manufactured are relocated or expanded to include additional facilities at other locations. This requirement also applies to manufacturer's suppliers with major inspection authorization, and those who furnish parts or related services where a safety and conformance determination to the approved design cannot or will not be made upon receipt at the approved receiving facility.


3. Upon request, the manufacturer must make available to FAA any pertinent information concerning their suppliers who furnish parts/services. This includes:
 - A description of the part or service;
 - Where and by whom the part or service will undergo inspection;
 - Any delegation of inspection duties;
 - Any delegation of materials review authority;
 - Name and title of FAA contact at the supplier facility;
 - Any direct shipment authority;
 - The inspection procedures required to be implemented;
 - Results of the manufacturer's evaluation, audit, and/or surveillance of their suppliers;
 - The purchase/work order number (or equivalent); and
 - Any feedback relative to service difficulties originating at the manufacturer's suppliers.

4. Parts, appliances, or manufacturing services furnished by any suppliers located in a foreign country may not be used in the production of any part or appliance listed in the enclosed supplement unless:
 - a. That part or service can and will be completely inspected for conformity at the manufacturer's U.S. facility; or
 - b. The FAA has determined that the location of the foreign supplier facility places no undue burden on the FAA in administering applicable airworthiness requirements. The manufacturer must advise the FAA at least 10 days in advance when the use of such foreign suppliers is contemplated. This allows the FAA to make this determination; or
 - c. The parts/services furnished by the foreign supplier are produced under the "components" provisions of U.S. bilateral airworthiness agreements. They are also approved for import to the U.S. according to 14 CFR § 21.502.

5. Permanently mark parts produced under the terms of this approval with the identification information as required by 14 CFR § 45.15. Use the letters "FAA-PMA," the name, trademark, or symbol of the company, the part number, and the name and model designation of each type-certificated product on which the part is eligible for installation. If the part is too small or impractical to mark, the FAA must approve alternate means of identification. For a part based on an STC, the identification of installation-eligible type-certificated products must refer to the STC on the shipping document. Reference the assembly PMA part number on the shipping document.

6. This approval is not transferable and it may be withdrawn for any reason that precludes its issuance or whenever the FAA finds that the Fabrication Inspection System is not being maintained. A withdrawal may occur if unsafe or nonconforming parts are accepted under the fabrication inspection system.

7. Our district office must be notified within 10 days from the date of the address change in this approval.
8. The manufacturer must maintain their fabrication inspection system in continuous compliance with the requirements of 14 CFR § 21.303(h). The manufacturer must also ensure that each part conforms to the approved design data and is safe for installation on type-certificated products.
9. The manufacturer is eligible for the appointment of qualified individuals in their employ to represent the FAA as Designated Manufacturing Inspection Representatives (DMIRs) or Organization Designated Airworthiness Representatives (ODARs). The DMIRs and ODARs issue Export Airworthiness Approvals for Class II and Class III products.
10. The manufacturer shall report information concerning service difficulties on any part produced under this approval to our district office in a timely manner. The manufacturer should also report any failures, malfunctions, and defects that require reporting under 14 CFR § 21.3.
11. All technical data required by 14 CFR § 21.303(c)(3) (for the parts to be produced under this approval) must be readily available to the FAA at the facility where parts are being produced.
12. The manufacturer shall notify our district office immediately, in writing, of any changes to the Fabrication Inspection System that may affect the inspection, conformity, or airworthiness of the parts approved in this letter.
13. The manufacturer shall produce all parts in accordance with Aircraft Battery Shop, LLC Quality Assurance Manual, Revision 1, dated October 1, 2008, which has been accepted as evidence of compliance with 14 CFR § 21.303(h). Accordingly, any revisions to these data must be submitted for approval by this office before implementation.


James R. Reeves
Atlanta Manufacturing
Inspection District Office

Enclosure: Parts Manufacturer Approval Listing - Supplement No. 1

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

Aircraft Battery Shop, LLC
 163 Business Park Dr., Suite 7
 Lebanon, TN 37090

PMA NO.: PQ4009CE
 SUPPLEMENT NO.: 1
 DATE: October 22, 2008

PART NAME	PART NUMBER	APPROVED REPLACEMENT FOR PART NUMBER	APPROVAL BASIS & APPROVED DESIGN DATA	MAKE ELIGIBILITY	MODEL ELIGIBILITY
Battery Cell	ABS-4017	Aero Design AQS-4017	Test and Computations per 14 CFR 21.303 Dwg. No.: ABS-1001A	Cessna	500, 550, S550, 552, 560, 560XL
		Aviall Inc. BS271P	Rev.: Orig. Date: April 9, 2008 or later FAA approved revision.	Dassault Aviation	Falcon 10, Mystere-Falcon 20 -C5, -D5, -E5, -F5
		J.E.T. 549-1170-05		Embraer	EMB-110P1, EMB-110P2
				Gulfstream	G-159
				Hawker Beechcraft	65, A65, A-65-8200, 65-80, 65-A80, 65-A80-8800, 65-B80, 65-88, 65-90, 65-A90, 65A90-1, 65A90-2, 65A90-3, 65A90-4, B90, C90, C90A, C90GT, E90, H90, C90GTi, 99, 99A, A99, A99A, B99, C99, 100, A100, A100-1, A100A, A100C, B100, 200, 200C, 200CT, 200T, A200, A200C, A200CT, B200, B200C, B200CTG, B200CT, B200GT, B200T, 300, 300LW, B300, B300C, 1900, 1900C, 1900D, BAe. 125 Series 800A, BAe. 125 Series 800B, BAe. 125 Series 1000A, BAe. 125 Series 1000B, MU-300-10, 400, 400A, 400T

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Battery Cell	ABS-4017	Aero Design AQS-4017	Test and Computations per 14 CFR 21.303 <u>Dwg. No.:</u> ABS-1001A	Israel Aircraft	1121, 1121A, 1121B, 1123, 1124, 1124A
		Aviall Inc. BS271P	<u>Rev.:</u> Orig. <u>Date:</u> April 9, 2008 or later FAA approved revision.	Learjet	23, 24, 24A, 24B, 24B-A, 24C, 24D, 24D-A, 24E, 24F, 24F-A, 25, 25A, 25B, 25C, 25D, 25F, 28, 29, 31, 31A, 35, 35A, 36, 36A, 55, 55B, 55C, 60
		J.E.T. 549-1170-05		Lockheed	1329-23A, 1329-23D, 1329-23E, 1329-25
				M7 Aerospace	SA26-T, SA26-AT, SA226-T, SA226-AT, SA226-T(B), SA227-AT, SA227-TT
				Mitsubishi	MU-2B, MU-2B-10, MU-2B-15, MU-2B-20, MU-2B-25, MU-2B-26, MU-2B-26A, MU-2B-30, MU-2B-35, MU-2B-36, MU-2B-36A, MU-2B-40, MU-2B-60

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Battery Cell	ABS-4017	Aero Design AQS-4017 Aviall Inc. BS271P J.E.T. 549-1170-05	Test and Computations per 14 CFR 21.303 <u>Dwg. No.:</u> ABS-1001A <u>Rev.:</u> Orig. <u>Date:</u> April 9, 2008 or later FAA approved revision.	Saab Sabreliner	340A, 340B, SF340A NA-265, NA265-20, NA265-30, NA265-40, NA265-60, NA265-65, NA265-70, NA265-80
Battery Pack	ABS-D717-01-100	Aero Design, Inc. P/N: AD-D717-01-100 P/N: D717-01-100	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.:</u> ABS-1031A <u>Rev.:</u> Orig. <u>Date:</u> March 25, 2008 or later FAA-approved revision.	Boeing, Inc.	737-100 Series, 737-200 Series, 737-200C Series, 737-300 Series, 737-400 Series, 737-500 Series, 737-600 Series, 737-700 Series, 737-700C Series, 737-800 Series, 737-900 Series, 737-900ER Series, 757-200 Series, 757-200CB Series, 757-200PF Series, 757-300 Series, 767-200 Series, 767-300 Series, 767-300F Series, 767-400ER Series, 777-200 Series, 777-200LR Series, 777-300 Series, 777-300ER Series

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PART NAME	PART NUMBER	APPROVED REPLACEMENT FOR PART NUMBER	APPROVAL BASIS & APPROVED DESIGN DATA	MAKE ELIGIBILITY	MODEL ELIGIBILITY
Battery Pack	ABS-774-034-44-1	Aero Design P/N:AD-774-034-44-1	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.:</u> ABS-1029A <u>Rev.:</u> Orig. <u>Date:</u> June 24, 2008 or later FAA-approved revision.	328 Support Services GmbH	Dornier Models Do328-100 Do328-300
		Airbus P/N:774-034-44		Airbus	A300, Model B2-1A, A300, Model B2-1C, A300, Model B2-203, A300, Model B2K-3C, A300, Model B4-2C, A300, Model B4-103, A300, Model B4-203, A300, Model B4-601, A300, Model B4-603, A300, Model B4-605R, A300, Model B4-620, A300, Model B4-622 A300, Model B4-622R, A300, Model C4-605R Variant F, A300, Model F4-605R, A300, Model F4-622R, A310, Model 203, A310, Model 204, A310, Model 221, A310, Model 222, A310, Model 304, A310, Model 322, A310, Model 324, A310, Model 325, A319 Model-111, A319 Model-112, A319 Model-113, A319 Model-114, A319 Model-115, A319 Model-131, A319 Model-132, A319 Model-133, A320 Model-111, A320 Model-211, A320 Model-212, A320 Model-214, A320 Model-231, A320 Model-232, A320 Model-233,
		Deihl P/N:774-034-44			
		Installed in Aircraft Battery Shop LLC and Aero Design Inc. AD- 3214-30 only			

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PART NAME	PART NUMBER	APPROVED REPLACEMENT FOR PART NUMBER	APPROVAL BASIS & APPROVED DESIGN DATA	MAKE ELIGIBILITY	MODEL ELIGIBILITY
Battery Pack	ABS-774-034-44-1	Aero Design P/N:AD-774-034-44-1 Airbus P/N:774-034-44 Deihl P/N:774-034-44 Installed in Aircraft Battery Shop LLC and Aero Design Inc. AD- 3214-30 only	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.:</u> ABS-1029A <u>Rev.:</u> Orig. <u>Date:</u> June 24, 2008 or later FAA-approved revision.	Airbus	A321 Model-111, A321 Model-112, A321 Model-131, A321 Model-211, A321 Model 212, A321 Model 213, A321 Model-231, A321 Model-232, A330-201, A330-202, A330-203, A330-223, A330-243, A330-301, A330-302, A330-303, A330-321, A330-322, A330-323, A330-341, A330-342, A330-343, A340-211, A340-212, A340-213, A340-311, A340-312, A340-313, A340-541, A340-642
Battery Pack	ABS-61-2274-1	Aero Design, Inc. P/N: AD-61-2274-1 Avro P/N: 61-2274-1	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.:</u> ABS-1027A <u>Rev.:</u> Orig. <u>Date:</u> May 19, 2008 or later FAA-approved revision.	BAE Systems	Avro 146-RJ 70A 146-RJ85A 146-RJ100A
Battery Pack	ABS-55-2198-1	Aero Design, Inc. P/N: AD-55-2198-1 Grimes P/N: 55-2198-1	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.:</u> ABS-1025A <u>Rev.:</u> Orig. <u>Date:</u> May 04, 2008 or later FAA-approved revision.	Boeing	707-100 Long Body, 707-100B Long Body, 707-100B Short Body, 707-200, 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, 737-600 Series, 737-700 Series, 737-700C Series, 737-800 Series, 737-900 Series, 737-900ER Series,

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Battery Pack	ABS-55-2198-1	Aero Design, Inc. P/N: AD-55-2198-1 Grimes P/N: 55-2198-1	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.:</u> ABS-1025A <u>Rev.:</u> Orig. <u>Date:</u> May 04, 2008 or later FAA-approved revision.	Boeing	747-100 Series, 747-100B Series, 747-100B SUD Series, 747-200B Series, 747-200C Series, 747-200F Series, 747SR Series, 747SP Series, 747-300 Series, 747-400 Series, 747-400D Series, 747-400F Series,
				Bombardier	CL-600-1A11 CL-600-2A12, CL-600-2B16, CL-600-2B19, CL-600-2C10, CL-600-2D15, CL-600-2D24, DHC-8-100 Series, DHC-8-200 Series, DHC-8-300 Series, DHC-8-400 Series
				Fokker	F.27 Mark 100
				Hawker Beechcraft	BAc. 125 Series1000A BAc. 125 Series 1000B
				SAAB	340A, 340B, SF340A

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Battery Pack	ABS-4063P	Aero Design, Inc. <u>P/N: AD-4063P</u> Boeing <u>P/N: 2017</u>	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.: ABS-1023A</u> <u>Rev.: Orig.</u> <u>Date: April 27, 2008 or</u> later FAA-approved revision.	Airbus	A300, Model B2-1A, A300, Model B2-1C, A300, Model B2K-3C, A300, Model B2-203, A300, Model B4-2C, A300, Model B4-103, A300, Model B4-203, 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, A310, Model 203, A310, Model 204, A310, Model 221, A310, Model 222, A310, Model 304, A310, Model 322, A310, Model 324, A310, Model 325, A319 Model-111, A319 Model-112, A319 Model-113, A319 Model-114, A319 Model-131, A319 Model-132, A320 Model-111, A320 Model-211, A320 Model-212, A320 Model-214, A320 Model-231, A320 Model-232, A320 Model-233, A321 Model-111, A321 Model-112, A321 Model-131, A321 Model-211, A321 Model-231, A340-211, A340-212, A340-213, A340-311, A340-312, A340-313, A340-541, A340-642

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Battery Pack	ABS-4063P	Aero Design, Inc. <u>P/N: AD-4063P</u>	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.: ABS-1023A</u> <u>Rev.: Orig.</u> <u>Date: April 27, 2008 or</u> later FAA-approved revision.	Airbus	British Aerospace 1-11 200 Series, 1-11 400 Series
		Boeing <u>P/N: 2017</u>		BAE Systems	BAe 146-100A, BAe 146-200A, HS 748 Series 2A, HS 748 Series 2B
				Boeing	707-100 Long Body, 707-100B Long Body, 707-100B Short Body, 707-200, 727 Series, 727-100 Series, 727C Series, 727-100C Series, 727-200 Series, 737-100 Series, 737-200 Series, 737-200C Series, 737-300 Series, 737-400 Series, 737-500 Series, 737-600 Series, 737-700 Series, 737-800 Series, 747-100 Series, 747-100B Series, 747-200B Series, 747-200C Series, 747-200F Series, 747SR Series, 747SP Series, 747-300 Series, 747-100B SUD Series, 757-200 Series, 767-200 Series, 767-300 Series,
				Bombardier	CL-600-2B19 CL-600-2C10

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Battery Pack	ABS-4063P	Aero Design, Inc. <u>P/N: AD-4063P</u> Boeing <u>P/N: 2017</u>	Test and Computation per 14 CFR § 21.303 <u>Dwg. No: ABS-1023A</u> <u>Rev: Orig.</u> <u>Date: April 27, 2008 or</u> later FAA-approved revision.	Embraer	EMB-135BJ, EMB-135ER, EMB-135KE EMB-135KL EMB-135LR EMB-145, EMB-145ER, EMB-145EP, EMB-145LR, EMB-145MP, EMB-145MR, EMB-145XR
				Fokker	F.27 Mark 200, F.27 Mark 600, F.28 Mark 1000, F.28 Mark 3000, F.28 Mark 4000
				Lockheed	L1011-385-1, L1011-385-1-14, L1011-385-1-15, L1011-385-3
				Maryland Air Industries	Fairchild F-27, F-27A, F-27B, F-27F, F-27G, F-27J, FH-227, FH-227B, FH-227C, FH-227D, FH-227E, F-27M
				McDonnell Douglas	DC-8-11, DC8-12, 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-8-55, 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,

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Battery Pack	ABS-4002P	Aero Design, Inc. <u>P/N:AD-4002P</u> GE/Gates <u>P/N:41BO04AD07G3</u> Grimes <u>P/N:MISC-060 and MISC-0615</u> Engineered Magnetics <u>P/N:803911-1</u> Saft <u>P/N:16623-1 and 16624-1</u> Marathon S103 <u>P/N:25503-025</u>	Test and Computation per 14 CFR § 21.303 <u>Dwg. No: ABS-1002A</u> <u>Rev: Orig.</u> <u>Date: April 20, 2008 or later FAA-approved revision.</u>	Dassault Aviation Fokker	Mystere Falcon 50, Mystere Falcon 900 F.28 Mark 0070, F.28 Mark 0100, F.28 Mark 1000, F.28 Mark 2000, F.28 Mark 3000, F.28 Mark 4000,
Battery Pack	ABS-4002P	Aero Design, Inc. <u>P/N:AD-4002P</u> GE/Gates <u>P/N:41BO04AD07G3</u> Grimes <u>P/N:MISC-060 and MISC-0615</u> Engineered Magnetics <u>P/N:803911-1</u> Saft <u>P/N:16623-1 and 16624- 1</u> Marathon S103 <u>P/N:25503-025</u>	Test and Computation per 14 CFR § 21.303 <u>Dwg. No: ABS-1002A</u> <u>Rev.: Orig.</u> <u>Date: April 20, 2008 or later FAA-approved revision.</u>	McDonnell Douglas	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-9-32F, 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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Battery Pack	ABS-4061P	Aero Design, Inc. <u>P/N: AD-4061P</u> Boeing <u>P/N:100-000-036-1,</u> <u>38924-019, FW104,</u> <u>S104,</u>	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.: ABS-1022A</u> <u>Rev.: Orig.</u> <u>Date: April 24, 2008 or</u> later FAA-approved revision.	Boeing	727-100 Series, 727C Series, 727-100C Series, 727-200 Series, 747-100 Series, 747-100B Series, 747-200B Series, 747-200C Series, 747-200F Series, 747R Series, 747SP Series, 747-300 Series, 747-100B SUD Series

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Battery Pack	ABS-4016	Aero Design, Inc. <u>P/N: AQS-4016</u>	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.: ABS-1000A</u>	Cessna	500, 551,552,550, S550, 560, 560XL
		Aviall Inc. <u>P/N: BS270P</u>	<u>Rev.: Orig.</u> <u>Date: April 09, 2008 or</u> later FAA-approved revision.	Dassault Aviation	Falcon 10, Mystere-Falcon 20 -C5, -D5, -E5, -F5
		JET <u>P/N: 549-1170-01</u>		Embraer	EMB-110P1, EMB-110P2 EMB-120, EMB-120ER, EMB-120FC, EMB-120QC, EMB-120RT
				Gulfstream	G-159
				Hawker Beechcraft	65, A65, A-65-8200, 65-80, 65-A80, 65-A80-8800, 65-B80, 65-88, 65-90, 65-A90, 65A90-1, 65A90-2, 65A90-3, 65A90-4, B90, C90, C90A, C90GT, E90, H90, C90GTi, 99, 99A, A99, A99A, B99, C99, 100, A100, A100-1, A100A, A100C, B100, 200C, 200CT, 200T, A200, A200C, A200CT, B200, B200C, B200CTG, B200CT, B200GT, B200T, 300, 300LW, B300, B300C, 1900, 1900C, 1900D, BAe. 125 Series 800A, BAe. 125 Series 800B, BAe. 125 Series 1000A, BAe. 125 Series 1000B, MU-300-10, 400, 400A, 400T

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PMA NO.: PQ4009CE
 SUPPLEMENT NO.: 1
 DATE: October 22, 2008

PART NAME	PART NUMBER	APPROVED REPLACEMENT FOR PART NUMBER	APPROVAL BASIS & APPROVED DESIGN DATA	MAKE ELIGIBILITY	MODEL ELIGIBILITY
Battery Pack	ABS-4016	Aero Design, Inc. <u>P/N: AQS-4016</u>	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.: ABS-1000A</u>	Israel	1121, 1121A, 1121B, 1123, 1124, 1124A
		Aviall Inc. <u>P/N: BS270P</u>	<u>Rev.: Orig.</u> <u>Date: April 09, 2008 or</u> later FAA-approved revision.	Learjet	23, 24, 24A, 24B, 24B-A, 24C, 24D, 24D-A, 24E, 24F, 24F-A, 25, 25A, 25B, 25C, 25D, 25F, 28, 29, 31, 31A, 35, 35A, 36, 36A, 55, 55B, 55C, 60
		JET <u>P/N: 54 9-1170-01</u>		M7 Aerospace	SA26-T, SA26-AT, SA226-T, SA226-AT, SA226-T(B), SA227-AT, SA227-TT
				Mitsubishi	MU-2B, MU-2B-10, MU-2B-15, MU-2B-20, MU-2B-25, MU-2B-26, MU-2B-26A, MU-2B-30, MU-2B-35, MU-2B-36, MU-2B-36A, MU-2B-40, MU-2B-60
				Saab	340A, 340B, SF340A
				Sabreliner	NA-265, NA-265-20, NA-265-30 NA-265-40 NA-265-60 NA-265-65 NA-265-70 NA-265-80

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

Aircraft Battery Shop, LLC
 163 Business Park Dr., Suite 7
 Lebanon, TN 37090

PMA NO.: PQ4009CE
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PART NAME	PART NUMBER	APPROVED REPLACEMENT FOR PART NUMBER	APPROVAL BASIS & APPROVED DESIGN DATA	MAKE ELIGIBILITY	MODEL ELIGIBILITY
Battery Pack	ABS-3214-30	Aero Design, Inc. <u>P/N: AD-3214-30</u> Airbus <u>P/N: 3214-30 and 3214-31</u> Diehl <u>P/N: 3214-30 and 3214-31</u>	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.: ABS-1021A</u> <u>Rev.: Orig,</u> <u>Date: May 16, 2008 or later FAA-approved revision.</u>	328 Support Services GmbH Airbus	Fairchild Do328-100 series Do328-300 Series A300, Model B2-1A, A300, Model B2-1C, A300, Model B2K-3C, A300, Model B4-2C, A300, Model B4-103, A300, Model B2-203, A300, Model B4-203, 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, A310, Model 203, A310, Model 204, A310, Model 221, A310, Model 222, A310, Model 304, A310, Model 322, A310, Model 324, A310, Model 325, A318 Model-111, A318 Model-112, A318 Model-121, A318 Model-122, A319 Model-111, A319 Model-112, A319 Model-113, A319 Model-114, A319 Model-131, A319 Model-132, A320 Model-111, A320 Model-211, A320 Model-212, A320 Model-214, A320 Model-231, A320 Model-232, A320 Model-233,

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

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PART NAME	PART NUMBER	APPROVED REPLACEMENT FOR PART NUMBER	APPROVAL BASIS & APPROVED DESIGN DATA	MAKE ELIGIBILITY	MODEL ELIGIBILITY
Battery Pack	ABS-3214-30	Aero Design, Inc. <u>P/N: AD-3214-30</u> Airbus <u>P/N: 3214-30 and 3214-31</u> Diehl <u>P/N: 3214-30 and 3214-31</u>	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.: ABS-1021A</u> <u>Rev.: Orig,</u> <u>Date: May 16, 2008 or later FAA-approved revision.</u>	Airbus	A321 Model-111, A321 Model-112, A321 Model-131, A321 Model-211, A321 Model-231, A330-201, A330-202, A330-203, A330-223, A330-243, A330-301, A330-302, A330-303, A330-321, A330-322, A330-323, A330-341, A330-342, A330-343 A340-211, A340-212, A340-213, A340-311, A340-312, A340-313, A340-541, A340-642
Battery Pack	ABS-2013-1A	Aero Design, Inc. <u>P/N: AD-2013-1A</u> Radiant Illumination Unit RPI-B, RPSI and RPS1-B Battery <u>P/N: 2013-1A</u> Boeing <u>P/N: 2013-1A</u> Bruce Industries <u>P/N: 2013-BR</u>	Test and Computation per 14 CFR § 21.303 <u>Dwg No.: ABS-1005A,</u> <u>Rev.: Orig,</u> <u>Date: April 27, 2008 or later FAA-approved revision.</u>	Airbus	A300, Model B2-1A, A300, Model B2-1C, A300, Model B2K-3C, A300, Model B4-2C, A300, Model B4-103, A300, Model B2-203, A300, Model B4-203, 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, A310, Model 203, A310, Model 204, A310, Model 221, A310, Model 222, A310, Model 304, A310, Model 322, A310, Model 324, A310, Model 325, A319 Model-111, A319 Model-112, A319 Model-113, A319 Model-114, A319 Model-131, A319 Model-132,

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

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Battery Pack	ABS-2013-1A	<p>Aero Design, Inc. <u>P/N: AD-2013-1A</u></p> <p>Radiant Illumination Unit RPI-B, RPSI and RPS1-B Battery <u>P/N: 2013-1A</u></p> <p>Boeing <u>P/N: 2013-1A</u></p> <p>Bruce Industries <u>P/N: 2013-BR</u></p>	<p>Test and Computation per 14 CFR § 21.303 <u>Dwg No.: ABS-1005A,</u> <u>Rev.: Orig,</u> <u>Date: April 27, 2008 or</u> later FAA-approved revision.</p>	<p>Airbus</p> <p>BAE Systems</p> <p>Boeing</p>	<p>A320 Model-111, A320 Model-211, A320 Model-212, A320 Model-214, A320 Model-231, A320 Model-232, A320 Model-233, A321 Model-111, A321 Model-112, A321 Model-131, A321 Model-211, A321 Model-231, British Aerospace 1-11 200 Series 1-11 400 Series</p> <p>BAe 146-100A, BAe 146-200A, HS 748 Series 2A, HS 748 Series 2B</p> <p>707-100 Long Body 707-100B Long Body 707-100B Short Body 707-200 727 Series, 727-100 Series 727C Series 727-100C Series 727-200 Series 737-100 Series 737-200 Series 737-200C Series 737-300 Series 737-400 Series 737-500 Series 737-600 Series 737-700 Series 737-800 Series 747-100 Series 747-100B Series 747-200B Series 747-200C Series 747-200F Series 747SR Series 747SP Series 747-300 Series 747-100B SUD Series 757-200 Series 767-200 Series 767-300 Series</p>

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

Aircraft Battery Shop, LLC
 163 Business Park Dr., Suite 7
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PMA NO.: PQ4009CE
 SUPPLEMENT NO.: 1
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Battery Pack	ABS-2013-1A	Aero Design, Inc. <u>P/N: AD-2013-1A</u>	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.: ABS-1005A</u>	Bombardier	CL-600-2B19, CL-600-2C10
		Radiant Illumination Unit RPI-B, RPSI and RPS1-B Battery <u>P/N: 2013-1A</u>	<u>Rev.: Orig.</u> <u>Date: April 27, 2008 or</u> later FAA-approved revision.	Embraer	EMB-135BJ, EMB-135ER, EMB-135KE EMB-135KL EMB-135LR EMB-145, EMB-145ER, EMB-145EP, EMB-145LR, EMB-145MP, EMB-145MR, EMB-145XR
		Boeing <u>P/N: 2013-1A</u>			
		Bruce Industries <u>P/N: 2013-BR</u>			
				Eurocopter	AS350B, AS350BA, AS350B1, AS350B2, AS350B3, AS350B4, AS 350C, AS350D, AS350D1, AS 355E, AS355F, AS355F1, AS355F2, AS355N, AS355NP
				Fokker	F.27 Mark 200, F.27 Mark 600, F.28 Mark 1000, F.28 Mark 3000, F.28 Mark 4000
				Gulfstream	GV, GV-SP
				Lockheed	L1011-385-1, L1011-385-1-14, L1011-385-1-15, L1011-385-3
				Maryland Air Industries	Fairchild F-27, F-27A, F-27B, F-27F, F-27G, F-27J, F-227, FH-227B, FH-227C, FH-227D, FH-227E, F-27M

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

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Battery Pack	ABS-2013-1A	Aero Design, Inc. <u>P/N: AD-2013-1A</u> Radiant Illumination Unit RPI-B, RPSI and RPS1-B Battery <u>P/N: 2013-1A</u> Boeing <u>P/N: 2013-1A</u> Bruce Industries <u>P/N: 2013-BR</u>	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.: ABS-1005A</u> <u>Rev.: Orig.</u> <u>Date: April 27, 2008</u> or later FAA-approved revision.	McDonnell Douglas	DC-8-11, DC8-12, 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-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-9-32F, 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) DC-10-10, DC-10-10F, DC-10-15, DC-10-30, DC-10-30F (KC-10A, KDC-10), DC-10-40, DC-10-40F

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

Aircraft Battery Shop, LLC
 163 Business Park Dr., Suite 7
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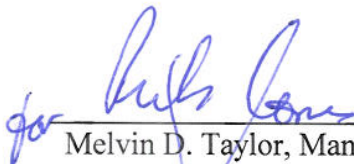
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<u>PART NAME</u>	<u>PART NUMBER</u>	<u>APPROVED REPLACEMENT FOR PART NUMBER</u>	<u>APPROVAL BASIS & APPROVED DESIGN DATA</u>	<u>MAKE ELIGIBILITY</u>	<u>MODEL ELIGIBILITY</u>
Battery Pack	ABS-2013-1A	Aero Design, Inc. <u>P/N: AD-2013-1A</u>	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.: ABS-1005A</u> <u>Rev.: Orig.</u> <u>Date: April 27, 2008 or later FAA-approved revision.</u>	Viking Air Limited	Bombardier DHC-7-1 DHC-7-100 DHC-7-101 DHC-7-102 DHC-7-103
		Radiant Illumination Unit RPI-B, RPSI and RPS1-B Battery <u>P/N: 2013-1A</u>			
		Boeing <u>P/N: 2013-1A</u>			
		Bruce Industries <u>P/N: 2013-BR</u>			

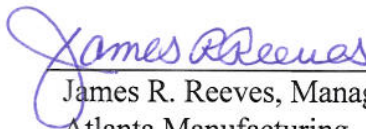
-----**END OF LISTING**-----

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.



Melvin D. Taylor, Manager
 Atlanta Aircraft Certification Office



James R. Reeves, Manager
 Atlanta Manufacturing
 Inspection District Office