



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

**Small Airplane Directorate  
Atlanta Manufacturing  
Inspection District Office**  
One Crown Center  
1895 Phoenix Blvd., Suite 225  
Atlanta, GA 30349

July 30, 2009

**PQ4009CE**

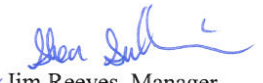
Aircraft Battery Shop, LLC  
163 Business Park Dr., Suite 7  
Lebanon, TN 37090

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

In accordance with the provisions of Title 14 Code of Federal Regulations (14 CFR), Part 21, we have found that the design data, based on Test and Computation submitted by Aircraft Battery Shop, LLC, with letters dated February 17, May 12, and June 12, 2009 meets the airworthiness requirements of the regulations applicable to the products on which the parts are to be installed. Additionally, it has been determined that Aircraft Battery Shop, LLC, has established the fabrication inspection system required by 14 CFR § 21.303 at 163 Business Park Dr., Suite 7, Lebanon, TN 37090. Accordingly, Parts Manufacturer Approval (PMA) is hereby granted for production of the replacement parts listed in the enclosed Supplement No. 4 in conformity with the enclosed FAA approved design data.

You are reminded that the provisions of 14 CFR, noted in our PMA letter of approval dated October 22, 2008, also apply to the enclosed PMA Listing-Supplement No. 4. The enclosed Supplement should be retained with the original PMA Letter as evidence of approval to produce the parts concerned. Please sign and return the attached acknowledgment form to the undersigned.

Sincerely,

  
For Jim Reeves, Manager  
Atlanta Manufacturing  
Inspection District Office

**FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL**

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

PMA NO.: PQ4009CE  
SUPPLEMENT NO.: 4  
DATE: July 30, 2009

<b>PART NAME</b>	<b>PART NUMBER</b>	<b>APPROVED REPLACEMENT FOR PART NUMBER</b>	<b>APPROVAL BASIS &amp; APPROVED DESIGN DATA</b>	<b>MAKE ELIGIBILITY</b>	<b>MODEL ELIGIBILITY</b>
Temperature Sensor	ABS-29529-003	Marathon <u>P/N</u> : 29529-003, 29630-484, 29529-002  Installed in MarathonNorco Aerospace Battery: <u>P/N</u> : BTSP-4445L, 32248-001, 20-44SP100,  Installed in MarathonNorco Aerospace Battery: <u>P/N</u> : M <sup>3</sup> -44-8, 32845-001, 19-44M <sup>3</sup> 120  Installed in Embraer Battery: <u>P/N</u> : SPD 145-26258	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.</u> : ABS-4039A <u>Rev.</u> : Orig. <u>Date</u> : April 20, 2008 or later FAA-approved revisions.	Empresa Brasileira de Aeronautica S.A. (Embraer)	EMB-135BJ EMB-135ER EMB-135KL EMB-135LR EMB-145 EMB-145ER EMB-145MR EMB-145LR EMB-145XR EMB-145EP
Temperature Sensor	ABS-24314	Saft AI <u>P/N</u> : 24314, 024314-000  Installed in Saft Battery <u>P/N</u> : 539CH1, 024147-000, 20CVH531KA	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.</u> : ABS-4040A <u>Rev.</u> : Orig. <u>Date</u> : June 11, 2008 or later FAA-approved revisions.	The Boeing Company	737-600 Series 737-700 Series 737-800 Series 737-900 Series

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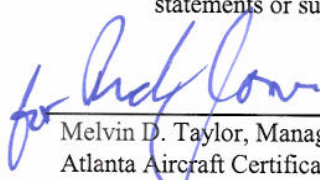
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<u>PART NAME</u>	<u>PART NUMBER</u>	<u>APPROVED REPLACEMENT FOR PART NUMBER</u>	<u>APPROVAL BASIS &amp; APPROVED DESIGN DATA</u>	<u>MAKE ELIGIBILITY</u>	<u>MODEL ELIGIBILITY</u>
Battery Pack	ABS-3103	Grimes P/N: 55-1988-1  Installed in Grimes Power Supply P/N: 60-4411 Series	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.:</u> ABS-1034A <u>Rev.:</u> Orig. <u>Date:</u> Feb. 16,2009 or later FAA-approved revisions.	McDonnell Douglas	MD-11 MD-11F

-----**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

  
FOR Jim Reeves, Manager  
Atlanta Manufacturing Inspection District Office