



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

Small Airplane Directorate  
Atlanta Aircraft Certification Office  
1701 Columbia Ave.  
College Park, Georgia 30337

FEB 12 2013

Mr. Duane Quiring  
Aviation Business Development  
ACR Electronics, Inc.  
5757 Ravenswood Road  
Fort Lauderdale, FL 33312

Dear Mr. Quiring:

Technical Standard Order (TSO) C142a Approval for  
Artex 452-6504 Battery Pack

We received your letter, dated January 25, 2013, in which you certified that the Artex, Inc. Model 452-6504 Battery Pack meets the Code of Federal Regulations (CFR) Part 21, Subpart 0, and the standards of TSO-C142a for Non-Rechargeable Lithium Cells and Batteries.

Your certification is acceptable. Your quality control manual has been previously approved by the FAA, and is on file in the Orlando Manufacturing Inspection District Office, ACE-ORL-MIDO. The following documents, submitted with your letter, have been reviewed and added to our files in support of your application:

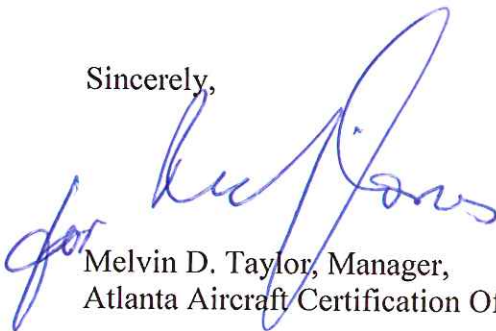
TSO Para.	TSO Requirement	ACR Electronics, Inc. Document
5.a.	Operating instructions and equipment limitations	Document Y1-03-0259, Revision A, dated January 25, 2013
5.b.	Installation procedures and limitations	Document Y1-03-0259, Revision A, dated January 25, 2013
5.c.	Schematic drawings	Document Y1-01-0735, Revision A, dated June 14, 2012
5.d.	Wiring diagrams	Document Y1-03-0259, Revision A, dated January 25, 2013
5.e.	List of components	Document 452-6504, Revision A, dated June 08, 2012
5.f.	A component maintenance manual (CMM)	Document Y1-03-0259, Revision A, dated January 25, 2013
5.g.	Material and process specifications list	Document 452-6504, Revision A, dated June 08, 2012

5.h.	The quality control system (QCS) description	Document Y1-03-0259, Revision A, dated January 25, 2013 & ACR Electronics, Inc. Quality Manual, Revision S, dated March 19, 2012
5.i.	Manufacturer's TSO qualification test report	Document Y1-13-0049, Revision 1, dated October 16, 2012
5.j.	Nameplate drawing	A1-20-1669 Revision D, dated Feb 07, 2013
5.k.	A list of all drawings and processes	Document 452-6504, Revision A, dated June 08, 2012
5.l.	An environmental qualifications form	Document Y1-03-0259, Revision A, dated January 25, 2013 & ACR "TSO C142a Certification of 452-6504 Battery" application letter, dated January 25, 2013

Effective this date, you are authorized to use TSO procedures as prescribed in Subpart O of CFR Part 21, and to identify the Artex Model 452-6504 Battery Pack with the applicable TSO marking as required by TSO-C142a. This office must be notified of any design or manufacturing changes to the Model 452-6504 as outlined in CFR 21.611(a), with minor change submittal intervals not to exceed six months. As a TSO manufacturer, you are required to report to the FAA any failure, malfunctions, or defect related to your TSO authorization in accordance with the provisions of CFR 21.3. You must also notify the FAA when you no longer manufacture the TSO-approved article, as required by CFR 21.613(b).

This authorization pertains only to the manufacturing operations at the above address, And this office must be notified in advance of any proposed relocation. If you have any questions, please contact John Lee by email at [John.Lee@faa.gov](mailto:John.Lee@faa.gov) or by phone at 404-474-5568.

Sincerely,



Melvin D. Taylor, Manager,  
Atlanta Aircraft Certification Office