



U.S. Department
of Transportation

**Federal Aviation
Administration**

MAR 8 2016

Small Airplane Directorate
Atlanta Aircraft Certification Office
1701 Columbia Avenue
College Park, GA 30337

Correspondence Reference #16068-01

Mr. Michael Greene, PhD
Chairman and CEO
Archangel Systems, Inc.
1635 Pumphrey Ave.
Auburn, AL 36832

Dear Mr. Greene:

This is in response to your February 16, 2016, letter for Federal Aviation Administration (FAA) authorization to identify Attitude Heading Reference Systems, Model AHR75, with Technical Standard Order TSO-C201, markings. By this letter, you are authorized to manufacture the Model AHR75 in accordance with 14 CFR, Part 21, Subpart O, and the applicable TSO as listed below:

Model:	AHR75
Description:	Attitude Heading Reference System
Part Number(s):	AHR75()
TSO Marking:	TSO-C201

We find your Statement of Conformance dated February 16, 2016, and your Archangel Systems, Inc. Quality Control Manual, Revision E, dated December 22, 2010, acceptable.

The following data will be retained on file for this authorization:

- a) Plan for Software Aspects of Certification, Document, PSAC-AHR75
- b) Software Configuration/Life Cycle Index Document, SCI- AHR75
- c) Software Accomplishment Summary Document, SAS- AHR75
- d) Interface Control Document for the System (used for installation and checkout), ICD-AHR75
- e) Environmental Test Plan and Qualification for the System, ETP- AHR75
- f) Environmental Test Results ETR- AHR75

- g) Environmental Qualification Form, EQF- AHR75
- h) Master Drawing List with TSO Label drawings for AHR75

Effective this date, you are authorized to identify this Model and Part Number(s) with the applicable TSO markings in accordance with 14 CFR, Part 21.609(b).

This office accepts your statement of compliance with RTCA DO-178C, Level A category requirements. This compliance finding should not be considered an installation approval and the installation may be subject to additional software review related in the integration of this equipment into an airframe. Verification of compatibility with a particular aircraft installation is the responsibility of the installer and may require further FAA analysis, possible flight test, and changes to a Flight Manual Supplement.

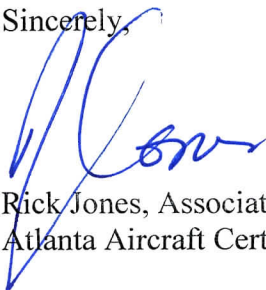
This authorization is not transferable to another person or location and is effective until surrendered, withdrawn, or otherwise terminated by the Administrator.

Your responsibilities as a holder of a TSO authorization are outlined in 14 CFR, part 21, subpart O. Reporting failures, malfunctions, and defects is outlined in 14 CFR, part 21.3. Any design change made to the TSO item must be forwarded to this office as outlined in 14 CFR, part 21.619, with minor change submittal intervals not to exceed six months.

Please note that the technical data retained by the FAA may be subject to Freedom of Information Act (FOIA) requests. As such, this office will notify you of all requests pertaining to your data and afford you the opportunity to defend the release of data.

The Systems Engineer for your program is Myles Jalalian, telephone number 404-474-5572. The Program Management Specialist is Cherice Clarke, telephone number 404-474-5537.

Sincerely,



Rick Jones, Associate Manager
Atlanta Aircraft Certification Office