



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

Small Airplane Directorate  
Chicago Aircraft Certification Office  
2300 E. Devon Avenue  
Des Plaines, IL. 60018

May 2, 2017

Paul Bogdans  
Engineering Manager  
R.A. Miller Industries (RAMI)  
14500 168<sup>th</sup> Ave  
Grand Haven, MI 49417

Dear Mr. Bogdans:

This is in reply to your letter dated April 24, 2017 for requesting Technical Standard Order (TSO) authorization for a Transponder Antenna, Model AV-289 (Incomplete System). We accept your statement certifying that your article meets the requirements of TSO-C74d and that you meet the requirements of Title 14 Code of Federal Regulations Part 21, Subpart O. Effective this date, we authorize you to identify the Transponder Antenna with the marking requirements defined in 14 CFR §45.15(b) and in TSO-C74d.

<b>Approved Part Number</b>	<b>Description</b>
AV-289	Transponder Antenna (1030-1090 MHz) (Incomplete System)

We consider your quality system, as defined in your RAMI Quality Policy Manual, Revision M, dated May 15, 2014 (or later FAA approved revision) satisfactory for production of this article at your Grand Haven, Michigan facility.

The following statement must be furnished with each manufactured unit:

“The conditions and tests for TSO approval of this article are minimum performance standards. Those installing this article, on or in a specific type or class of aircraft, must determine that the aircraft installation conditions are within the TSO standards. TSO articles must have separate approval for installation in an aircraft. The article may be installed only according to 14 CFR Part 43, or the applicable airworthiness requirements.”

You must provide one copy, or online access, to data listed as a furnished data requirement in the TSO to the original owner/installer of each article or multiple articles if furnished to one source (e.g. an operator, type certificate holder, or repair station).

Per our agreement, we will retain all data that was submitted in support of your Technical Standard Order (TSO), as follows:

- a. Statement of Conformance in your letter dated 4/24/17, and
- b. Qualification Test Report (QTR), dated 4/24/17.

This TSO authorization, issued under 14 CFR 21.611, is effective until surrendered, withdrawn or otherwise terminated under the provisions of 14 CFR 21.613. With notice, we may withdraw this TSO authorization if articles aren't in compliance with the applicable TSO performance standards per 14 CFR 21.2.

You must obtain FAA approval prior to making any changes to the location of your manufacturing facilities pursuant to 14 CFR 21.609(b).

Without further FAA approval, we don't allow manufacturers to mark articles after they change their company's name, address, or ownership. You must notify the ACO and MIDO of name, address, or proposed ownership changes.

Per 14 CFR 21.614, a holder of a TSOA may not transfer it. If you wish to transfer it, you must request a transfer from the FAA.

Send to this office any design change(s) for this TSO article as outlined in 14 CFR 21.619(a). You should notify us of minor design changes within six (6) months. Also, as recipient of this authorization, we require you to report any failure, malfunction, or defect relating to articles produced under this authorization in accordance with the provisions of 14 CFR 21.3.

Please note that technical data the FAA retains may be subject to Freedom of Information Act (FOIA) requests. This office will notify you of any request(s) pertaining to your data and give you the opportunity to protect the data from public disclosure.

If you have any questions regarding this authorization, contact Mr. Surinder Sangha at (847) 294-7010, fax (847) 294-7834 or email [surinder.sangha@faa.gov](mailto:surinder.sangha@faa.gov).

Sincerely,



Steven L Lardinois  
Manager, Systems & Flight Test Branch