



U.S. Department  
of Transportation

**Federal Aviation  
Administration**

Small Airplane Directorate  
Anchorage Aircraft Certification Office  
222 W. 7th Avenue, Unit 14, Room 128  
Anchorage, Alaska 99513-7587

May 20, 2004

Mr. Marvin A. Kumley  
Garmin AT, Inc  
2345 Turner Road SE  
Salem, Oregon 97302

Dear Mr. Kumley:

We have reviewed your letter dated March 29, 2004, April 9, 2004, and May 6, 2004, and supporting information requesting Technical Standard Order (TSO) authorization for the Garmin GDL 90 UAT Data Link Sensor Processor Unit, Part Number 430-6081-1xx-xxx and Micro-Airplane Personality Module ( $\mu$ APM), Part Number 430-6200-xxx. The statement of conformance to TSO-C154 Class A1H & B1 for Universal Access Transceiver (UAT) and TSO-C145a Class 1 for Global Positioning System (GPS)/Wide Area Augmentation System (WAAS) and the submitted data are acceptable. Effective this date, you are authorized to identify the GDL 90 UAT Data Link Sensor Processor Unit, Part Number 430-6081-1xx-xxx with the marking requirements defined in 14 CFR § 21.607(d) and in TSO-C154 Class A1H & B1 and TSO-145a Class 1 (GDL 90 UAT Data Link).

Your Quality Control System, as defined in your Quality Assurance Manual, Document No. IIM-0067 Revision J, dated December 10, 2003, is considered satisfactory for production of this article at your Salem, Oregon, location.

The following statement must be furnished with each manufactured unit:

“The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those desiring to install this article on a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standards. The article may be installed only if further evaluation by the applicant documents an acceptable installation and it is approved by the Administrator.”

This letter, along with the required TSO data, should be retained in your files. A letter of TSO authorization is not transferable and is effective until surrendered, withdrawn, or otherwise terminated by the FAA. The FAA may, upon notice, withdraw the TSO authorization of any manufacturer who identifies with a TSO marking any article not meeting the performance standards of the applicable TSO.

Any design changes made to the TSO'd items must be forwarded to the Anchorage Aircraft Certification Office as outlined in 14 CFR § 21.611. Also as recipient of this authorization, you are required to report any failure, malfunction or defect relating to this authorization in accordance with the provision of 14 CFR § 21.3.

Please note that 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 such requests pertaining to your data and afford you the opportunity to defend the release of the data.

All data pertaining to this modification are contained in our Project File Number SP0689AK-A. Reference should be made to this number in any inquiries regarding this project. If you have any further questions regarding this authorization or its supporting data, please contact Mr. August Asay at (907) 271-2673 or Mr. Jonathan Kim at (907) 271-2647.

Since I am very much interested in the service we provide to the aviation community and the general public, it would be helpful if you would provide your thoughts and comments regarding how the approval process went. To gather this information, we have enclosed a short survey (with a self-addressed, stamped envelope) that I hope you will fill out and return. You will note that the return envelope is addressed to me. Also, you may rest assured that your comments will receive my full attention and will, of course, be held in confidence.

Finally, I would like to personally congratulate you on your success as an FAA approval holder and say that I look forward to working with you in the future.

Sincerely,



Gregory J. Holt  
Manager, Anchorage Aircraft Certification Office

Enclosure

cc: AIR-130  
ANM-108S