



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

AIRCRAFT CERTIFICATION STAFF
c/o American Embassy
27, Boulevard du Regent
B-1000 Brussels, Belgium

In reply refer to: GE/vk/09/22/99: 300-99

September 22, 1999

Mr. Erckmann
Luftfahrt-Bundesamt
Postfach 3054
D-38020 Braunschweig
Germany

Dear Mr. Erckmann:

This letter refers to Becker Avionic Systems letter Ref. ML-jae-216, dated June 26, 1999, by which they made application for Technical Standard Order (TSO) design approval. This letter also acknowledges receipt of Becker Avionic Systems, Statement of Conformance dated June 25, 1999 and of LBA letter Ref. M 421-10.911/87 JTSO, dated July 27, 1999, certifying in accordance with FAR 21.617, that the VHF transceiver listed below complies with the requirements of TSO C37d and TSO C38d, as designated in FAR 21.305(b).

Based on the LBA certification and receipt of the required data, we hereby accept Becker Avionic Systems, TSO design approval to include the VHF Transceiver listed below for manufacture at Becker Avionic Systems, located at Baden Airpark, Gebäude B 108, Postfach 34, D-76549 Hügelsheim, Germany.

<u>Type</u>	<u>Description</u>
P/N AR 4201	VHF Transceiver

This letter of TSO design approval, together with the LBA Certificate of Airworthiness for Export, will authorize Becker Avionic Systems, to identify the VHF Transceiver with the TSO marking requirements described in FAR 21.607(d) and in TSO C37d and TSO C38d and is issued in accordance with FAR 21.617, governing issuance of TSO design approval for import appliances. Each item must be accompanied by a Certificate of Airworthiness for Export issued by the LBA or a duly authorized designee/organization (FAR 21.502(a)).

Deviation: As Minimum Performance Standard EUROCAE Document ED-23A, Minimum Performance Specification for Airborne VHF Communications Equipment Operating in the Frequency Range 117.975 - 137.000 MHz, (RECEIVER - TRANSMITTER, dated May 1986, was used instead of RTCA, Inc. Document DO-186, Minimum Operational Performance Standards for Airborne Radio Communications Equipment Operating within the Radio Frequency Range 117.975 - 137.000 MHz, Section 2.0, Change No. 1, dated March 1985, which is specified in TSO-C37d and TSO-C38d.

For environmental testing of the VHF Transceiver AR 4201 the environmental conditions prescribed in EUROCAE/RTCA ED-14C/DO-160C were used in lieu of the procedures of RTCA DO-160A which are specified in TSO-C37d and TSO-C38d..

Any further deviations from the established design approval should be accomplished in accordance with FAR 21.609. The request for approval to deviate, together with all pertinent data, should be submitted to the Federal Aviation Administration (FAA) through the LBA and should contain information to show that the particular deviation is compensated for by factors or design features providing an equivalent level of safety.

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 either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standards. If not within the TSO standards, the article may be installed only if further evaluation by the applicant documents an acceptable installation and is approved by the Administrator."

A letter of TSO design approval issued under FAR 21.617 is not transferable and is effective until surrendered, withdrawn or otherwise terminated by the FAA (FAR 21.621).

The FAA may, upon notice, withdraw the letter of TSO design approval of any manufacturer who identifies with a TSO marking any article not meeting the performance standards of the applicable TSO (FAR 21.619). The LBA airworthiness certification is essential to the determination that the item meets the performance standards of the applicable TSO.

If there are any questions, please feel free to have your staff contact Gregory A. Edwards (Tel.: 322.508.2714).

Sincerely,



John R. Colomy
Manager, Aircraft Certification Staff
FAA-Brussels

Reference: GE/vk/10/01/99: 305-99