



U. S. Department
of Transportation

**Federal Aviation
Administration**

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

July 31, 2003

Mr. Terry Lynch
Quality System Improvement Manager
Telex Communications Inc.
1720 E. 14th Street
Glencoe, MN 55336

Dear Mr. Lynch:

This is in reply to your letters of June 4, 2003 requesting Technical Standard Order (TSO) authorization for your aviation headset, Telex model Airman 850. The Statement of Conformance to TSO-C57a and TSO-C58a and the submitted data are accepted. Effective this date, you are authorized to identify the following Telex aviation headsets with the marking requirements defined in 14 CFR § 21.607(d) and in TSO-C57a and TSO-C58a.

<u>Part Number</u>	<u>Aviation Headset Description</u>
301317-000	Dual sided headset with Active Noise Reduction
301317-100	Dual sided headset without Active Noise Reduction
301317-200	Single sided headset without Active Noise Reduction
301317-[]	Future minor changes

We acknowledge part numbers 301317-000, 301317-100, and 301317-200 as the first in the series.

Your Quality Control System as defined in the Glencoe Telex Quality Management System (GTQMS) Manual with Index dated April 23, 2001, is considered satisfactory for production of this equipment at your Glencoe, Minnesota manufacturing facility.

As required by the TSO, 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 installing 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. TSO articles may have separate approval for installation on aircraft. The article may be installed only if performed under 14 CFR part 43 or the applicable airworthiness requirements."

Telex Communications was authorized to deviate from using the RTCA document DO-170 (currently required in TSO-C57a and TSO-C58a) since the DO-170 document has been canceled by RTCA and superseded by RTCA/DO-214. Telex was approved to use RTCA document DO-214 *Audio Systems Characteristics and Minimum Operational Performance Standards for*

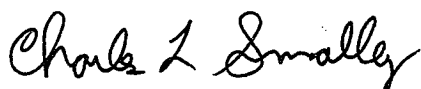
Aircraft Audio Systems and Equipment. TSO-C57a requires, through DO-214, frequency response testing of the headset. The Airman 850 did not meet all of the frequency response requirements. Telex requested a deviation and provided the FAA a basis for an equivalent level of safety finding by performing additional tests using the guidelines set forth in ANSI S3.2-1989 *American National Standard Method for Measuring the Intelligibility of Speech Over Communication Systems*. The tests show that the Airman 850 performed satisfactorily from an intelligibility standpoint and the deviation was approved.

Any design change to this TSO article must be forwarded to this office as outlined in 14 CFR § 21.611 with minor change submittal intervals not to exceed six months. Also, as recipient of this authorization, you are required to report any failure, malfunction, or defect relating to this authorization in accordance with the provisions of 14 CFR § 21.3.

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

If you have any questions regarding this authorization, contact Mr. Mike Ward by telephone at (847) 294-8192 .

Sincerely,



Charles L. Smalley
Manager, Systems & Flight Test Branch