



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

Southwest Region
Arkansas, Louisiana,
New Mexico, Oklahoma,
Texas

Fort Worth Aircraft Certification Office, ASW-140
10101 Hillwood Parkway
Fort Worth, TX 76177

October 15, 2015

Mr. Brian Gordon
Sandia Aerospace
3700 Osuna Road NE, Suite 711
Albuquerque, NM 87109

Dear Mr. Gordon:

Subject: TSOA Application for Model Series 306171-[xx] series Standby Attitude Indicator.

This is in reply to your letter dated September 25, 2015 (revised), requesting TSO authorization for your 306171-[xx] series Standby Attitude Indicator. We accept your statement certifying that your article meets the listed TSO requirements, and that you meet the requirements of Title 14 Code of Federal Regulations Part 21 Subpart O, including the listed non-TSO functions. We also accept the data you submitted in support of the non-TSO functions, listed in Attachment 1, on a non-interference basis. Effective this date, we authorize you to identify the following 306171-[xx] series Standby Attitude Indicator with the marking requirements defined in 14 CFR 45.15(b) and the approved TSO's.

Model Series: 306171-[xx]
Description: Standby Attitude Indicator
TSO: C2d Type B, C3e, C4c, C10b Type I, C113a, C201 AHRS -A5 HX T7
Master Data List: 306171-00-MDL, Revision A1, dated 9/25/2015
Software P/N: 901099-EOC-[XX]
Software Level: DO-178C, Level C

We consider your quality system, as defined in your Quality Manual 9710JF01, Rev. D1, dated April 13, 2011, satisfactory for production of this article at your 3700 Osuna Rd NE., Albuquerque NM, 87109 facility.

This TSO authorization, issued under 14 CFR 21.611, is effective until surrendered, withdrawn or otherwise terminated under the provisions of 14 CFR 21.613.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 Federal Aviation Administration (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 Aircraft Certification Office and Manufacturing Inspection District Office of name, address, or proposed ownership changes.

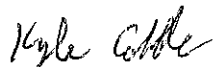
Per 14 CFR 21.614, a holder of a TSOA may not transfer it. If you wish to transfer it, you must request a transfer from the FAA.

Forward to the office listed below 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 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 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, I can be reached at 817-222-5172.

Sincerely,



Kyle Cobble
Project Engineer,
Fort Worth Aircraft Certification Office

Enclosure

cc: MIDO-42

Email: 9-AMC-AIR140-Information-Products/AMC/FAA@FAA

Attachment 1 to Model Series 306171-[xx] series Standby Attitude Indicator

Accepted Non-TSO Functions

We accept, as valid data, the data supporting the non-TSO functions listed below. **This TSO authorization is not an approval for the non-TSO functions or for installation.** You must apply for a separate installation approval so we can determine if the data are applicable and sufficient to show compliance to the airworthiness regulations for the products where the article is installed.

<u>Non-TSO Function</u>	<u>Documentation</u>	<u>Performance Standard</u>
Rechargeable Lithium Battery System 2-ER	RTCA DO-347	Report 901099-BQTR Rev
Pilot display of battery status ER	AC 23.1311-1C § 18.1	Report 901099-SVR Rev 2-
Pilot display of V-Speeds limits on airspeed tape ER	AC 23.1311-1C § 17.7	Report 901099-SVR Rev 2-
Pilot display of power-on self-test (BIT) failure ER	AC 23.1311-1C § 21.0	Report 901099-SVR Rev 2-
Pilot display of brightness adjustment	AC 23.1311-1C § 20.0	Report 901099-SVR Rev 2-ER