



July 12, 2017

Scott Fohrman
Program Manager
Chicago Aircraft Certification Office
2300 E. Devon Avenue
Des Plaines, IL 60018

Dear Scott;

We are applying for Production Approval for our Broadcasting Outer Module as a non-required safety enhancing device. We base this requested approval on FAA Policy number PS-AIR-21.8-1602.

The stated function(s) of the Broadcasting Outer Module on which this approval requested is an aerodynamic pod that mounts under the wing of the aircraft. The Broadcasting Outer Module is a fully independent, completely wireless, self-powered, all in one avionics device. Avionics include WAAS GPS, ADSB-in, AOA, Air Data (Altitude, Airspeed), AHRS (Attitude, Directional Gyro, Turn Coordination, rate of turn, VSI) and outside air temperature.

Our System meets the design and performance requirements of 14 CFR 21.137 and is produced under a quality system that satisfies the requirements of the FAA Policy number PS-AIR-21.8-1602.

We request your review of the enclosed data packages in support of this application.

<u>Article Name</u>	<u>Part Number</u>	<u>Authorized Function</u>	<u>Approved Replacement for</u>	<u>FAA Approval Basis and Approved Design Data</u>	<u>Installation Eligibility:</u>
The Broadcasting Outer Module	102-01-01 (with ADS-B) 102-01-02 (without ADS-B)	The Broadcasting Outer Module is a fully independent, completely wireless, self-powered, all in one avionics device. Avionics include	Alteration Part	FAA memorandum number PS-AIR-21.8-1602	Aircraft Certified under 14 CFR 23 or earlier regulations, as outlined in FAA memorandum number PS-AIR-21.8-1602



WAAS GPS,
ADSB-in,
AOA, Air
Data
(Altitude,
Airspeed),
AHRS
(Attitude,
Directional
Gyro, Turn
Coordination,
rate of turn,
VSI) and
outside air
temperature.

The Levil Aviation parts will be manufactured at *1704 Kennedy Point Ste. 1124 Oviedo FL, 32765*

As you review this application, please do not hesitate to contact me if you have any questions or require additional information regarding this application. Thank you in advance for your assistance with this project.

Best regards,
Michelle Leon
Operations Manager
407-542-1261
Michelle@levil.com



U.S. Department
of Transportation

**Federal Aviation
Administration**

Small Airplane Directorate
Chicago Aircraft Certification Office
2300 E. Devon Avenue, Room 107
Des Plaines, IL 60018

Decemeber 12, 2017

Michelle Leon
Operations Manager, Levil Aviation
1704 Kennedy Point, Ste #1124
Oviedo, FL 32765.

Dear Ms. Leon,

We received your letter of July 12, 2017 and last data transmittal of Decemeber 12, 2017 submitting your statement certifying that your Broadcast Outer Module meets the design and performance requirements of FAA Policy PS-AIR-21.8-1602 for Non Required Safety Enhancing Equipment (NORSEE) and is produced under a quality system that satisfies the requirements of the same policy. Based on our acceptance of your statement and 14 CFR 21.8(d), we authorize the manufacturing of your equipment as detailed by the part numbers that are shown in the following table:

<u>Article Name</u>	<u>Part Number</u>	<u>Authorized Function</u>	<u>Approved Replacement for</u>	<u>FAA Approval Basis and Approved Design Data</u>	<u>Installation Eligibility:</u>
The Broadcasting Outer Module (with ADS-B in functionality)	102-01-01	GPS, ADS-B in, AOA, Air Data (Altitude, Airspeed), AHRS (Attitude, Directional Gyro, Turn Coordination, rate of turn, VSI) and outside air temperature. (Note: Users must provide stand alone display)	Alteration Part	FAA memorandum number PS-AIR-21.8-1602	Provided that the requirements of 14 CFR 1.1 and 14 CFR 43 Appendix A are met and the installation does not detrimentally obstruct the pilots view of required instrumentation, equipment may be installed as a minor alteration on Aircraft Certified under 14 CFR 23 or precursor regulations, as outlined in FAA memorandum number PS-AIR-21.8-1602.
The Broadcasting Outer Module (without ADS-B in functionality)	102-01-02	GPS, AOA, Air Data (Altitude, Airspeed), AHRS (Attitude, Directional Gyro, Turn Coordination, rate of turn, VSI) and outside air temperature. (Note: Users must provide stand alone display)	Alteration Part	FAA memorandum number PS-AIR-21.8-1602	Provided that the requirements of 14 CFR 1.1 and 14 CFR 43 Appendix A are met and the installation does not detrimentally obstruct the pilots view of required instrumentation, equipment may be installed as a minor alteration on Aircraft Certified under 14 CFR 23 or precursor regulations, as outlined in FAA memorandum number PS-AIR-21.8-1602.

It is critical for users the above equipment to understand that NORSEE is considered secondary or non-essential to the required equipment. It is vital for pilot in command to understand its

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functionality, limitations, and intent to provide only additional, non-contradictory information. It is pilot's responsibility to use basic airmanship to operate the aircraft safely with or without the aid of NORSEE.

This approval is based on the authorized function as stated in the above table. Uses outside of this authorized function have not been reviewed by the FAA to comply with the requirements of FAA Policy PS-AIR-21.8-1602 and may require additional evaluation. It should also be noted that NORSEE production approval does not grant Installation Approval Product Manufacturer Authorization (PMA) or Technical Service Order Authorization (TSOA).

We also accept the statement that your quality system meets the requirements of FAA Policy PS-AIR-21.8-1602. We authorize production of this NORSEE equipment at your Levil Aviation facility at 1704 Kennedy Point, Ste #1124 Oviedo, FL 32765.

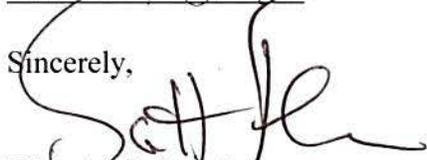
All major components of the articles produced under this approval must be permanently and legibly marked with the authorization holder's name, or trademark, or symbol, part number and "14 CFR 21.8(d)".

You must allow the FAA to inspect your quality system, facilities, technical data, and any manufactured articles and witness any tests, including any inspections or test at a supplier facility, necessary to investigate any service difficulty or possible non-compliance with FAA Policy PS-AIR-21.8-1602. Any service difficulties with the equipment should be reported to the ACO.

You must notify the FAA before making any changes to the location of any of your manufacturing facilities, company name or ownership. This approval is transferable to another U.S. manufacturer subject to the transferee complying with the NORSEE policy PS-AIR-21.8-1602 (or later policy revision) and design approval holders responsibilities stated in this letter of authorization.

This approval is effective until surrendered, withdrawn or otherwise terminated by the FAA. If you have any questions, please call Scott Fohrman, at (847) 294-7136, fax (847) 294-7834, email scott.fohrman@faa.gov.

Sincerely,



for Timothy P. Smyth
Chicago ACO Branch, Manager -- AIR-7CO
Compliance and Airworthiness Division, FAA

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