



U.S. Department
of Transportation
Federal Aviation
Administration

Compliance & Airworthiness Division
Aircraft Certification Service
Chicago ACO Branch
2300 E. Devon Avenue, Room 107
Des Plaines, IL 60018

October 22, 2018

Mr. Jeff Bethel
AeroVonics LLC
12306 Manual Blvd NE.
Albuquerque, New Mexico 87122

Dear Mr. Bethel:

We received your NORSEE Letter of Approval Request revision B, dated October 3, 2018, your Product Specification document D-0016-0 revision B dated October 3, 2018, your Pilot's Guide document D-0014-0 revision B dated October 3, 2018, and your AV-20/AV-20-S Installation Manual D-0011-0 AV-20 dated October 3, 2018, in support of your request for approval of your new AV-20 and AV-20-S Multi-Function Displays.

We acknowledge your data submission of October 3, 2018 with your statement certifying that your AV-20 / AV-20-S Multi-Function Display, 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. The FAA requires you to have a quality manual that verifies your quality system and follows the guidance outlined in the NORSEE 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>
AV-20	U-1001-0	Display of - Clock (GMT / Local), - Outside Air Temperature (C / F), - Bus Voltage, - Dual User Timers (Count Up / Down), - Engine Run Timer, NOTE: this is for advisory and Situational awareness purposes only.	Alteration Part	FAA memorandum number PS-AIR-21.8-1602 Drawing: D-0016-0 Rev.: B Date: 10/03/18 or later FAA-approved revisions	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 a nonpressurized Aircraft Certified under 14 CFR 23 or precursor regulations, as outlined in FAA memorandum number PS-AIR-21.8-1602.

<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>
AV-20-S	U-1002-0	Display of - AoA w/Voice Alerting & Peaks, - G-Meter w/Voice Alerting & Peaks, - Attitude (Roll / Pitch), - Slip/skid, - Clock (GMT / Local), - Outside Air Temperature (C / F), - Bus Voltage, - Dual User Timers (Count Up / Down), - Engine Run Timer, - Flight Timer, - Density Altitude, - True Airspeed (Kts / Mph), - Internal Battery Operation Note: This is for advisory and Situational awareness purposes only.	Alteration Part	FAA memorandum number PS-AIR-21.8-1602 Drawing: D-0016-0 Rev.: B Date: 10/03/18 or later FAA-approved revisions	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 a nonpressurized 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 of the above equipment to understand that NORSEE is considered secondary or non-essential to the required equipment. It is vital for the pilot in command to understand its functionality, limitations, and intent to provide only additional, non-contradictory information. It is the 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 functions 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, Parts Manufacturer Approval (PMA) or Technical Standard 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 AeroVonics LLC Facility located at 12306 Manual Blvd NE., Albuquerque, New Mexico 87122.

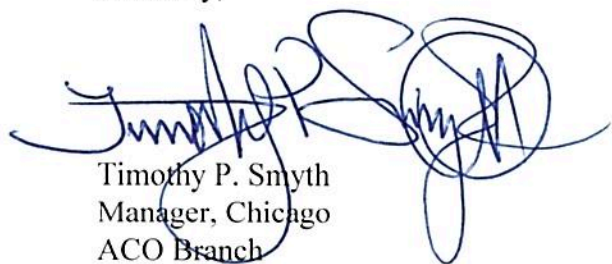
All major components of the articles produced under this approval must be permanently and legibly marked with the authorization holder's name, or trademark, or symbol, part number and "14 CFR 21.8(d)".

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 John Raspanti, at (847) 294-7379, fax (847) 294-7834, email john.raspanti@faa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Timothy P. Smyth', is written over a printed name and title. The signature is stylized and somewhat circular in shape.

Timothy P. Smyth
Manager, Chicago
ACO Branch