



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

January 31, 2020

Mr. Ryan Braun  
uAvionix Corporation  
2411 W. Winnemac Ave.  
Chicago, IL 60625

Dear Mr. Braun:

We received your letters, dated November 25, 2019 and January 13, 2020, your Product Specification document UAV-1003615-001 Rev F dated January 13, 2020, your Pilot's Guide document UAV-1003614-001 revision C dated November 24, 2019, and your AV-20/AV-20-S Installation Manual UAV-1003613-001 revision C dated November 24, 2019, in support of your request to transfer NORSEE approval of the AeroVonics AV-20/AV-20-S to uAvionix Corporation.

We acknowledge your data submission of January 13, 2020 with your statement certifying that your AV-20 and AV-20-S products, meet the design and performance requirements of your Product Specification UAV-1003615-001 revision F and 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 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	UAV-1003591-001	Display of -Clock, -OAT, -Bus Voltage, -User Timer -Engine Time  NOTE: this is for advisory and Situational awareness purposes only.  *OAT requires separate approval of OAT probe installation	Alteration Part	FAA memorandum number PS-AIR-21.8-1602  Drawing: UAV-1003615-001 Rev: F Date: 1/13/2020 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	UAV-1003310-001	Display of -Clock -OAT* -Bus Voltage -User timer -Engine & Flight Time -AoA/G-Meter -Attitude -Density Altitude* -TAS* -Battery Monitor  Note: This is for advisory and Situational awareness purposes only.  *OAT, Density Altitude and TAS require separate approval of OAT probe installation	Alteration Part	FAA memorandum number PS-AIR-21.8-1602  Drawing: UAV-1003615-001 Rev: F Date: 1/13/2020 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 uAvionix Corporation Facility located at 560 Berne Road, Columbia Falls, MT 59912.

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 Chicago 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](mailto:john.raspanti@faa.gov).

Sincerely,

A handwritten signature in blue ink that reads "John Raspanti". The signature is written in a cursive, flowing style.

John Raspanti  
Program Manager,  
Chicago ACO,  
Propulsion and Program Management section,  
AIR-7C3