



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

November 20, 2020

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

Dear Mr. Braun:

We received your request letter dated November 19, 2020 requesting an update to your existing Non Required Safety Enhancing System (NORSEE) approval of your AV-20 Instrument. This update is based on your revised AV-20 Installation Manual UAV-1003613-001 (Rev D), AV-20 Product Specification UAV-1003615-001 (Rev G) and AV-20 Drawings and Processes List UAV-1004877-001 (Rev A). This letter updates and replaces your original NORSEE approval dated January 31, 2020.

We accept your statement certifying that your AV-20 and AV-20-S products, meet 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 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-1004877-001 Rev: A Date: 11/18/2020 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 an 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-1004877-001 Rev: A Date: 11/18/2020 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 an 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 and that the FAA has not verified the functionality of this device. 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.

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. It should noted that NORSEE production approval does not grant Installation Approval, Parts Manufacturer Approval (PMA) or Technical Standard Order Authorization (TSOA).

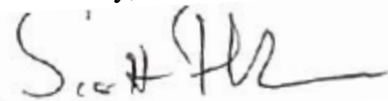
All major components of the articles produced under this approval must be permanently and legibly marked with the authorization holder's name, or trademark, or symbol, part number and "14 CFR 21.8(d)".

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 Scott Fohrman, at (847) 294-7136, fax (847) 294-7834, email scott.fohrman@faa.gov.

Sincerely,



sd
Roy E Boffo III
Manager, Propulsion and Program Management Branch
Chicago Aircraft Certification Branch
Federal Aviation Administration