



U.S. Department
of Transportation
Federal Aviation
Administration

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

April 9, 2024

Mr. Mark Korin
Alpha Systems Engineering and Manufacturing LLC.
1600 Old Sims Rd. NW
Oak Grove, MN 55011

Dear Mr. Korin:

This is in response to your letter dated March 5, 2024 requesting an update to your Alpha Systems Angle of Attack (AOA) System. This is based on a change to your company name and address.

We accept your statement certifying that your Alpha Systems Angle of Attack (AOA) System, meets the design and performance requirements of FAA memorandum number AIR100-14-110-PM01 for a supplemental angle of attack system and is produced under a quality system that satisfies the requirements of the same memorandum. Based on our acceptance of your statement and 14 CFR 21.8(d), we approve your supplemental angle of attack system, kit part numbers that are shown in the following table:

<i>Description</i>	<i>Part Number</i>	<i>Description</i>	<i>Part Number</i>
Eagle AOA Kit	DSTR-AOA-9600K	Hawk AOA Kit	DSTR-AOA-9800K
Eagle Pressurized Kit	DSTR-AOA-9600PK	Hawk Pressurized Kit	DSTR-AOA-9800PK
Eagle Dual Display Kit	DSTR-AOA-9600KDUAL	Hawk Dual Display Kit	DSTR-AOA-9800KDUAL
Eagle Pressurized Dual Kit	DSTR-AOA-9600DPK	Hawk Pressurized Dual Kit	DSTR-AOA-9800DPK
Falcon AOA Kit	DSTR-AOA-9200K	Merlin AOA Kit	DSTR-AOA-9900K
Falcon Pressurized Kit	DSTR-AOA-9200PK	Merlin Pressurized Kit	DSTR-AOA-9900PK
Falcon Dual Display Kit	DSTR-AOA-9200KDUAL	Merlin Dual Display Kit	DSTR-AOA-9900KDUAL
Falcon Pressurized Dual Kit	DSTR-AOA-9200DPK	Merlin Pressurized Dual Kit	DSTR-AOA-9900DPK
Condor AOA Kit	DSTR-AOA-9700K	Dragon AOA Kit	DSTR-AOA-9850K
Condor Pressurized Kit	DSTR-AOA-9700PK	Dragon Pressurized Kit	DSTR-AOA-9850PK
Condor Dual Display Kit	DSTR-AOA-9700KDUAL	Dragon Dual Display Kit	DSTR-AOA-9850KDUAL
Condor Pressurized Dual Kit	DSTR-AOA-9700DPK	Dragon Pressurized Dual Kit	DSTR-AOA-9850DPK

It is vital for installers of the above equipment to understand that FAA has not evaluated installation of the Angle of Attack equipment. Installation must be accomplished either as a minor alteration or major alteration substantiated by FAA approved data such as field approval, follow on STC or other form of FAA approved installation data.

Users of this equipment must understand that Angle of Attack equipment installed under AIR100-14-110-PM01 is considered secondary or non-essential to the required equipment. It is critical 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 the above equipment.

We also accept the statement that your quality system meets the requirements of the memorandum and is FAA approved as stated in 14 CFR 21.9(a)(2). We authorize production of this supplemental AOA system at your manufacturing facility, located at Alpha Systems Engineering and Manufacturing LLC, 1600 Old Sims Rd. NW Oak Grove, MN.

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)".

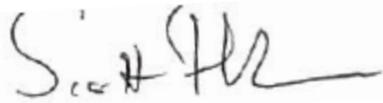
You must allow the FAA to inspect your quality system, facilities, technical data, and any manufactured articles and witness any tests, including any inspections or test at a supplier facility, necessary to investigate any service difficulty or possible non-compliance with the FAA memorandum AIR100-14-110-PMO I. Any service difficulties with the AoA system 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 may not be transferred. Any design changes that require the retesting of this AoA must be coordinated with the ACO before introduction into production.

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,



So Paul (Vu) Nguyen
Manager – Central Certification Branch (AIR-760)
Compliance and Airworthiness Division
Aircraft Certification Service
Federal Aviation Administration