



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:

<u>Article Name</u>	<u>Part Number</u>	<u>Approved Replacement for</u>	<u>FAA Approval Basis and Approved Design Data</u>	<u>Installation Eligibility:</u>
Mitsubishi Dual Eagle Pressurized AoA kit	DSTR-AOA-9600DPK-MU-2	Alteration Part	FAA memorandum number AIR100-14-110-PM01 Drawing: SCH-006 Rev.: B Date: 9-30-15 or later FAA-approved revisions	MITSUBISHI MU-2B MU-2B-10 MU-2B-20 MU-2B-15 MU-2B-30 MU-2B-35 MU-2B-25 MU-2B-36 MU-2B-26 MU-2B-26A MU-2B-36A MU-2B-40 MU-2B-60

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)".

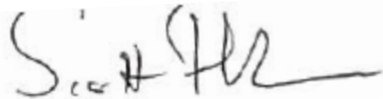
You must allow the FAA to inspect your quality system, facilities, technical data, and any manufactured articles and witness any tests, including any inspections or test at a supplier facility, necessary to investigate any service difficulty or possible non-compliance with the FAA memorandum AIR100-14-110-PMO 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](mailto: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