



U.S. Department  
of Transportation

**Federal Aviation  
Administration**

Aviation Safety

3960 Paramount Boulevard, Suite 100  
Lakewood, California 90712-4137

June 9, 2021

Alliance Aerospace Engineering, LLC  
Attn: Carlo Moyano  
20 Doppler Street  
Irvine, California 92618

Project Number: PQ2532NM

**FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL**

Dear Mr. Moyano:

In accordance with Title 14, Code of Federal Regulations (14 CFR), part 21, Certification Procedures for Products and Articles, subpart K, the Federal Aviation Administration (FAA) has found the design data as submitted by Alliance Aerospace Engineering, LLC (hereinafter referred to as “the Manufacturer”) on April 23, 2021, meets the airworthiness requirements of 14 CFR applicable to the products on which the articles are to be installed. Additionally, the FAA has determined that the Manufacturer has established the quality system required by § 21.307 at 20 Doppler Street, Irvine, CA 90505. Accordingly, Parts Manufacturer Approval (PMA) is hereby granted to the Manufacturer to produce the replacement articles (or modification articles, as applicable) listed in the enclosed supplement in conformity with the FAA-approved design data. Subsequent changes to the design data must be approved in a manner acceptable to the FAA.

The following terms and conditions apply to this approval:

1. The Manufacturer’s quality system, methods, procedures, and manufacturing facilities, including suppliers, are subject to FAA surveillance and investigations. Accordingly, the Manufacturer must advise its suppliers that their facilities are also subject to FAA surveillance and investigations.
2. The Manufacturer must obtain approval from the Los Angeles MIDO Section prior to relocating or expanding manufacturing facilities from which articles are produced, including the addition of associate facilities. Additionally, this requirement applies to the Manufacturer’s suppliers with major inspection authorization, and those suppliers who furnish articles or related services where a determination of safety and conformance to the approved design cannot or will not be made upon receipt at the approved receiving facility.
3. Upon request, the Manufacturer must make available to the FAA any pertinent information concerning their suppliers who furnish articles/services. This includes:
  - a. A description of the article or service;

- b. Where and by whom the article or service will undergo inspection;
- c. Any delegation of inspection duties;
- d. Any delegation of material review board authority;
- e. The name and title of the FAA contact at the supplier facility;
- f. The inspection procedures required to be implemented;
- g. Any direct-shipment authority;
- h. Results of the Manufacturer's evaluation, audit, and/or surveillance of their suppliers;
- i. The purchase/work order number (or equivalent); and
- j. Any feedback relative to service difficulties originating at the Manufacturer's suppliers.

4. Articles, appliances, or manufacturing services furnished by any suppliers located in a foreign country may not be used in the production of any article or listed in the enclosed supplement unless:

- a. That article or service can and will be completely inspected for conformity at the Manufacturer's U.S. facility; or
- b. The FAA has determined the location of the foreign supplier facility places no undue burden on the FAA in administering applicable airworthiness requirements. The Manufacturer must advise the FAA in advance when the use of such foreign suppliers is contemplated.

5. Articles produced under the terms of this approval must be permanently marked with the identification information as required by 14 CFR part 45, Identification and Registration Marking, § 45.15. Use the letters "FAA-PMA," the name, trademark, or symbol of the company, and the part number. If the FAA finds the article is too small or impractical to mark, the manufacturer must attach the information required by § 45.15 to the article or its container.

6. This approval is not transferable and it may be withdrawn for any reason that precludes its issuance or whenever the FAA finds the quality system is not being maintained. A withdrawal may occur if unsafe or nonconforming articles are accepted under the quality system.

7. The Los Angeles MIDO Section must approve any changes to the address shown in this approval.
8. The Manufacturer must maintain its quality system in continuous compliance with the requirements of § 21.307. The Manufacturer also must ensure that each article conforms to the approved design data and is safe for installation on type-certificated products.
9. The Manufacturer has the privileges specified within the PMA letter and supplement. In addition, the Manufacturer is eligible for the appointment of qualified individuals in its employ to represent the FAA as Designated Manufacturing Inspection Representatives (DMIRs), in accordance with the provisions of part 183. The Manufacturer may be authorized to apply for and obtain an Organization Designation Authorization (ODA). Orders 8000.95 and 8100.15 contain procedures for the administration of DMIRs and ODAs, respectively.
10. The Manufacturer must report in a timely manner, to the Los Angeles MIDO Section, information concerning service difficulties on any article produced under this approval. The Manufacturer also must report any failures, malfunctions, and defects that are required to be reported in accordance with § 21.3.
11. All technical data required by § 21.303(a)(3), for the articles to be produced in accordance with this approval, must be readily available to the FAA at the facility where the articles are being produced.
12. The Manufacturer must notify the Los Angeles MIDO Section, immediately in writing of any changes to the quality system that may affect the inspection, conformity, or airworthiness of the articles approved in this letter.
13. The Manufacturer must produce all articles in accordance with Alliance Aerospace Engineering, LLC Quality Assurance Manual, Rev 1.18, dated March 26, 2021, that has been presented as evidence of compliance with § 21.307. Accordingly, any revisions to the data must be submitted to the Los Angeles MIDO Section prior to implementation.

Sincerely,

Dale McMann  
Aviation Safety  
Manager, Los Angeles  
MIDO Section

Enclosure:  
Parts Manufacturer Approval Listing  
Supplement No. 1