



U.S. Department
of Transportation
**Federal Aviation
Administration**

Small Airplane Directorate
Vandalia Manufacturing Inspection
District Office
303 Corporate Center Dr., Ste. 312
Vandalia, OH 45377
Phone: 937-898-3991
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July 21, 2011

(Supersedes September 27, 2010)

Armstrong Aerospace
1437 Harmony Ct.
Itasca, IL 60143

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

In accordance with Title 14, Code of Federal Regulations (14 CFR), part 21, Certification Procedures for Product, Articles and Parts, subpart K, the FAA has found that the design data, as submitted by Armstrong Aerospace (hereinafter referred to as "the Manufacturer"), meets the airworthiness requirements of 14 CFR applicable to the product(s) on which the article(s) is to be installed. Additionally, the FAA has determined that the Manufacturer has established the quality system required by § 21.307 at 1437 Harmony, Ct., Itasca, IL, 60143. Accordingly, Parts Manufacturer Approval (PMA) is hereby granted to the manufacturer to produce the replacement articles (or modification articles, as applicable) listed in the supplement(s) identified below in conformity with the FAA-approved design data. Subsequent changes to these design data must be approved in a manner acceptable to the FAA.

The following terms and conditions apply to this approval:

Note: Supplement Numbers 1 through 57 with the Armstrong Aerospace address, 1555 Industrial Drive, Unit A, Itasca, IL, is now considered part of this PMA approval letter.

1. The Manufacturer's quality system, methods, procedures, and manufacturing facilities, including suppliers, are subject to FAA surveillance or investigations. Accordingly, the Manufacturer must advise its suppliers that their facilities are also subject to FAA surveillance and investigations.

2. The Manufacturer must notify Vandalia Manufacturing Inspection District Office (MIDO) prior to relocating or expanding manufacturing facilities at which articles are produced. This includes the addition of associated 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 FAA any pertinent information concerning their suppliers who furnish parts/services. This includes:

- a. A description of the part or service;
- b. Where and by whom the part or service will undergo inspection;
- c. Any delegation of inspection duties;
- d. Any delegation of materials review 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. Parts, appliances, or manufacturing services furnished by any suppliers located in a foreign country may not be used in the production of any part or appliance listed in the enclosed supplement unless:

- a. That part or service can and will be completely inspected for conformity at the Manufacturer's U.S. facility; or
- b. The FAA has determined that 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 at least ten working days in advance when the use of such foreign suppliers is contemplated. This will allow the FAA time to make this determination.

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, the part number. If the part 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 that the quality system is not being maintained. A withdrawal may occur if unsafe or nonconforming parts are accepted under the quality system.

7. The Vandalia MIDO 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 must also ensure that each article conforms to the approved design data and is safe for installation on type-certificated products.

9. The PMA holder has the privileges specified within the PMA letter and supplement. In addition, a PMA holder 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 DMIR may issue export airworthiness approvals for articles. The PMA holder may also be authorized to apply for and obtain an Organization Designation Authorization (ODA). Orders 8100.8 and 8100.15 contain procedures for the administration of DMIRs and ODAs, respectively.


10. The Manufacturer must report in a timely manner, to the Vandalia MIDO, information concerning service difficulties on any part 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 parts to be produced in accordance with this approval, must be readily available to the FAA at the facility where the parts are being produced.

12. The Manufacturer must notify the Vandalia MIDO 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 Armstrong Aerospace, Quality Assurance Policy Manual, Rev. C, dated 07/12/2011, that has been presented as evidence of compliance with § 21.308. Accordingly, any revisions to these data must be submitted to the Vandalia MIDO for approval prior to implementation.



 Jane W. Dorsey
Manager, Vandalia Manufacturing
Inspection District Office