

Paragon Transportation, LLC
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Paragon Transportation, LLC, was founded for the purpose of assisting airframe manufacturers, avionics equipment suppliers, and other aircraft related organizations in both product development and in dealing with the complex issues of certifying avionics systems and equipment. Paragon is experienced in providing guidance to the aviation community to achieve aircraft and equipment certification on schedule and at a minimum cost.

Paragon employs Designated Engineering Representatives (DERs) for the Federal Aviation Administration. In this capacity, we are able to approve or recommend the approval of:

- ◆ FAA certification program management
- ◆ Aircraft major alterations
- ◆ Aircraft equipment installation
- ◆ Aircraft avionics equipment
- ◆ Safety analysis
- ◆ Software development documentation
- ◆ Ground and flight test procedures
- ◆ All other data needed for type certification

All engineering aspects can be handled for these programs. Design of complex avionics installations, mechanical modifications, kit production, personnel instruction and installation on contract can be arranged.

The enclosed brochure provides a more detailed description of Paragon's capabilities and current projects. We will be pleased to meet with you for discussions in order to determine how Paragon can be of assistance to your organization in its engineering and certification efforts.



Paragon Transportation, LLC

Paragon is in the business of providing consulting engineering services for aircraft manufacturers, aircraft remanufacturers, airline aircraft operators, fixed base operators, repair centers, avionics manufacturers, and avionics installers. Our special areas of expertise are in:

- { Understanding the requirements of and dealing with U.S. and overseas aircraft certification authorities.
- { Planning all aspects of aircraft design, testing, documentation, and validation of major systems.
- { Presentation of this data to the appropriate aircraft certification authorities in an organized and timely fashion.

Our services include, but are not limited to, the following activities associated with the FAA:

AIRCRAFT APPROVALS:

- { Type Certificate (TC)
- { Supplemental Type Certificate (STC)
- { Major Repair and Alteration (Form 337)
- { Import Type Certificate
- { STC Program Management

PRODUCTION APPROVALS:

- { Production Under Type Certificate Only
- { Approved Production Inspection System (APIS)
- { Production Certificate (PC)
- { Delegation Option Authorization (DOA)
- { Technical Standard Order Authorization (TSOA)

DESIGN APPROVALS:

- { Technical Standard Order (TSO)
- { Parts Manufacturer Approval (PMA)
- { Foreign Design Approvals
- { Parts Manufacturer Approval (PMA)
- { Designated Alteration Station (DAS)
- { Production Approvals for Import Products

Designated Engineering Representative Qualifications

Richard Oracheff, FAA Consultant DER, is the President and Chief Technical Officer of Paragon. Mr. Oracheff has maintained the DER authorization from the FAA since 1984, either as a company DER for Honeywell Incorporated or as an independent consultant allowing him to represent customer matters not strictly related to his former employer. His range of approval coverage from FAA Order 8110.37, Appendix 2 (revised September 30, 1998) includes:

- { FAR Part 23 -- Small fixed wing transport aircraft
- { FAR Part 25 -- Large fixed wing transport aircraft
- { FAR Part 27 -- Small rotary wing aircraft
- { FAR Part 29 -- Transport rotary wing aircraft

AUTHORIZED AREAS (Systems and Equipment [Electrical Equipment] Chart C2):

- { Electrical Systems
- { Electronic Systems
- { Automatic Flight Control Systems
- { Flight Instrument Systems
- { Navigation Systems
- { Reliability Analysis, Safety Analysis and Functional Hazard Assessments
- { DER Coordination
- { High Intensity Radiated Fields (HIRF) Protection
- { Lightning Protection
- { Software Integration and Configuration Management pertaining to these delegations

DELEGATED FUNCTIONS:

- | | |
|---|----------------------------------|
| { Installation and Detail Design | { Service Documents |
| { Equipment Qualification Tests | { Witness Official FAA Tests |
| { Systems Development Tests and Results | { Appraisals and Expert Opinions |

OTHER AREAS:

In addition to Mr. Oracheff, Paragon retains consultant Designated Engineering Representatives authorized in other areas, such as:

- { Structural
- { Power Plants
- { Radio
- { Engine

Note: Activities for the above programs include:

- ◆ Certification Program Plans, including Safety Analysis, TIA, TSO, PMA, Flight Manual Supplements, POH, and Maintenance Manuals,
- ◆ HIRF testing and analysis, including FAA Special Conditions,
- ◆ Lightning testing and analysis, including FAA AC 20-136,
- ◆ Approval of all technical data and reports submitted to the FAA for eventual issuance of STC,
- ◆ Major alterations and field approvals,
- ◆ RTCA DO-178B Software approvals for level ABCDE equipment.
- ◆ Training for technicians, mechanics, inspectors and FAA Designated Professionals.
- ◆ Supplying A&P Mechanics and I A's for inspection for training.