The increased safety and performance requirements of today’s aircraft and airborne antennas are placing greater demands on design and manufacturing processes to structurally protect equipment from environmental conditions and aerodynamic loads.

New combinations of geometries, materials and construction methods are optimizing both strength and cost-efficiencies. As a result, composites are now gaining wider acceptance for use on aircraft due to their high strength-to-weight ratio, ability to be molded into complex shapes, outstanding transparency to microwaves and less corrosive properties.

**WHY CHOOSE L-3 ESSCO?**

- 50+ years of experience in composite manufacturing
- AS9100-certified
- World leader in the research, design and manufacture of radome, reflector and composite structure technologies
- Design-for-Manufacturing method turns “blue-sky” ideas into reality in as little as 6 months
- Rapid Certification Program incorporates qualified NIAR Certification by Simulation
- U.S. and E.U. operations and manufacturing facilities respond quickly to customer needs around the globe

L-3 ESSCO and its subsidiary, L-3 ESSCO Collins Limited (ECL), are the world’s premier designers and manufacturers of radomes, reflectors and composite structures. Our two fully equipped operations and manufacturing facilities — one in the U.S. and the other in Europe — enable us to support customer requirements around the globe. Both factories produce a wide variety of composite products and are staffed with field service technicians, which enables us to manage multiple programs simultaneously and provide delivery in the shortest time possible.

Call L-3 ESSCO today to discuss your airborne composite needs. Whatever your application — be it ground-based, shipboard or airborne — we’ve got you covered!

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Conducting tests and evaluating mechanical properties are crucial to the design and manufacture of any composite material. L-3 ESSCO has created a Rapid Certification Program in partnership with the National Institute for Aviation Research (NIAR), the same agency trusted by the Federal Aviation Administration (FAA) to provide research, design, testing and certification. Our partner, Lightning Diversion Systems, which designs our lightning strike systems, is also working directly with NIAR to develop standards for lightning strike certification. By utilizing NIAR’s certified simulation tools, we are able to seamlessly transition our prototyping and development to Finite Element Analysis (FEA). This enables us to fast-track the entire certification process and take modification or replacement parts (articles) from concept to FAA Parts Manufacture Approval (PMA), quickly and cost-effectively.

While Certification by Simulation is by far the fastest and the lowest-cost testing method, in the event that this method of certification is not acceptable, we also offer Certification by Simulation with Experimental Verification.

L-3 ESSCO is AS9100-certified. This aerospace industry-specific standard relating to ISO 9001 conformity provides a comprehensive quality management system focused on areas directly impacting product safety and reliability.