



# ENGINEERING & CERTIFICATION

Lighting &  
Integrated Systems



## PROVEN EXPERIENCE YOU CAN TRUST

B/E Lighting & Integrated Systems brings decades of experience as a leading provider of professional engineering, design, certification, and consulting services to your program.



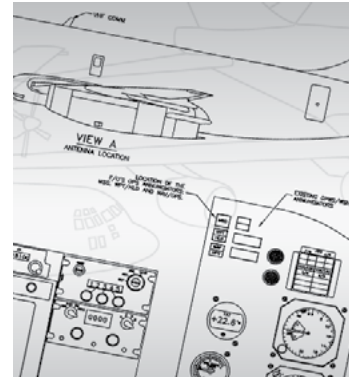
## ENGINEERING & DESIGN

Our experienced engineers possess the advanced technological competence necessary to design and develop solutions ranging from simple aircraft modifications to full VVIP completions with multiple systems fully integrated.

From conceptual design with 2D and 3D models to fully defined aircraft modifications and system definition, we will see your program through from concept to completion.

As a leader in the field of engineering, our engineering team boasts a broad spectrum of capabilities and experience with a reputation for dedication and unrivaled support for your project.

- Electrical engineering
- Avionics engineering
- Mechanical engineering
- Structural engineering
- Interior engineering

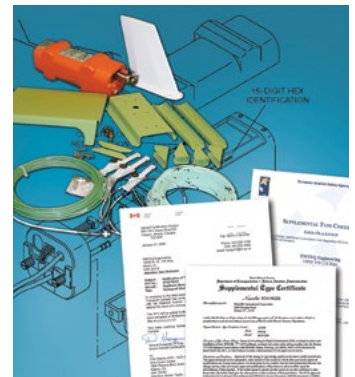


## CERTIFICATION & TESTING

B/E Lighting & Integrated Systems holds many FAA, EASA, Transport Canada, and other foreign design approvals for aircraft modifications. These established processes and relationships—as well as our in-house delegates and experienced engineers—allow us to deliver timely approvals for a range of large or small aircraft.

Several of our global locations hold repair station certificates with the FAA and EASA.

- FAA/EASA/Transport Canada certification
- FAA Partnership for Safety Plan
- In-house FAA DERs, DARs, and DMIRs
- PMA certification expertise
- FAA consulting services including DER major alteration approval
- Technical documentation
- Structural analysis including finite element analysis
- Flammability
- Occupant safety





## PRODUCT DEVELOPMENT



Our well rounded experience ranges from LED lights and cabin electronics to interior monuments, aircraft doors, and mission equipment. The team boasts proficiency in design and development software including SolidWorks, CATIA (mechanical and harnessing), OrCAD, ASAP, Freescale, Microchip, LonWorks, Visual Studio, and AutoCAD amongst others.

Our prototyping and expanded in-house testing capabilities allow us to save you money and manage the development timeline to ensure the program's success.

- DO-160/DO-178
- LED Innovation
- Circuit Board and Power Supply Design
- Manufacturing Engineering
- Quality Engineering
- Software Engineering
- HALT/HASS testing
- EMC and ESD testing
- Electrical testing

## PROGRAM MANAGEMENT



B/E Lighting & Integrated Systems brings you an EMTEQ Engineering level of service. Our program managers and engineers become integrated with your design team and serves as an extension of your business for comprehensive program management. Our in-house team and on-site support personnel work with you from program kick-off through completion, with quick response time and flexibility to ensure the successful execution of your program.

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