

# AKKA

## Aerospace

TECHNICAL OFFER

## ENVIRONMENTAL QUALIFICATION

AKKA proposes a whole range of expertise to support aircraft manufacturers and suppliers on environmental qualification and certification of equipment.



## WHAT WE OFFER

**Qualification test campaign DO160 experience:**

- **Writing, review and validation of qualification test documentation:** Qualification Plan, Qualification Test Procedure, Qualification Test Report, Analysis and Similarity report.
- **Test campaigns support:** commissioning equipment and tests setup, performing, monitoring and witnessing tests
- **Writing of certification test procedures and reports,** taking into account the aircraft engine general documentation (Specification and Certification Plan) as well as equipment specific documentation (Technical Specification, Development Review presentation and Supplier Qualification Test Procedure and Report).

## OUR ADDED VALUE

- Expertise in all DO-160 sections
- Interpretation of certification regulation requirements
- A multidisciplinary team dedicated to qualification test and certification documentation
- Experience in system testing
- Test witnessing on behalf of Aircraft manufacturers or suppliers
- Engineers are located all around the world: France, Spain, Japan, Canada... They are able to join all our customers and the external laboratories wherever they are located: Europe, America, and Asia



Automotive



Aeronautics



Railway



Energy



Life Sciences



Telecoms



Space



Services & Information Systems



Defense



Oil & Gas



Consulting



## SUCCESS STORY

### THEY TRUST US

Aircraft Manufacturers

AIRBUS, MITAC, DASSAULT, BOMBARDIER...

Suppliers

LEACH-ESTERLINE, SAFRAN, THALES,  
LIEBHERR...

### RECENT EXAMPLES

AKKA has delegation from MITAC for witnessing their European's suppliers on several systems. Our engineer team is in charge of:

- Ensuring the test are carried out in accordance with the qualification test plan and procedure,
- Checking the conformity of the test articles, the instrumentation and test bench,
- Verifying the equipment monitoring and test data recording,
- Reporting of the test progression,
- Managing non-conformities with approval of deviations during testing.

LEACH-ESTERLINE entrusts AKKA for performing mechanical, thermal and electromagnetic test campaigns since 2016. Our engineer team takes part of qualification of Integrated Control Center, Engine Auxiliary Control Box and Relays and we are in charge of:

- Writing test procedures
- Performing tests : thermal, mechanic and electromagnetic tests
- Writing test reports

## OUR EXPERTISE

### METHODOLOGY FOR DOCUMENTATION ANALYSIS

- Customer requirement review
- Compliance with norm/standard
- Redaction by environmental technical specialist
- Internal double-check review before delivery

### TESTING KEYS OF SUCCESS

- Management of test campaign
- Laboratory collaboration
- Test Witnessing
- Investigations, failure analysis and solution proposals

### CERTIFICATION

- Compliance demonstration to CS25.1301, CS25.1309, CS25.1316 and CRIs
- Discussion with certification and regulation authorities
- EUROCAE WG14 & 31 members

## TESTIMONY

### CYNTHIA L.

Environmental Qualification Engineer

*A dedicated team with rich experience and technical skills in Mechanics, Climatic, lightning or EMI has been working since 2002 in the area of Qualification and Certification of components.*

*The work scope includes, but is not limited to making test plans, driving, monitoring and improving environmental tests, analysing and reporting issues detected during the tests and supporting aircraft manufacturers as well as suppliers.*

*Thanks to our know-how and adapted response to particular situations, our portfolio includes customers not only from USA, Canada or Europe, but also from China, Japan and Brazil.*

### Contact

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