



ENVIRONMENTAL TEST LAB HIRF & LIGHTNING WORKSHOP

VIRTUAL WORKSHOP
SEPTEMBER 28- OCTOBER 2

SCHEDULE:

M-F 10:00 AM - 4:00 PM (CST)
(INCLUDES 1 HOUR LUNCH)

FEE:

\$1,875.00

PRESENTERS:

Billy Martin - NIAR-ETL Director of Special Projects, one of the leading technical authority on HIRF, Lightning and EME in the United States

Jeff Phillips - NIAR Senior Research Engineer

Tim McDonald - EMA President

Dr. Vignesh Rajamani - Manager, Electrical Engineering & Computer Science Practice, Exponent

Cody Weber - EMA Principal Scientist

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ABOUT THE COURSE:

This comprehensive workshop will provide an awareness of all aspects for EMI, HIRF, Lightning (systems/structure/fuel tank) and PEDs, including aircraft testing/modeling, in regard to compliance to existing rules and associated policies.

With recent revisions to guidance material and FAA Policy towards Part 23 Amendment 64, Fuel Tanks (25.981/954), Level A classification, aircraft EMI and PED tolerance, it is critical that anyone working in this field be up to date on the developments.

TOPICS INCLUDE:

- Background and why HIRF/Lightning Rules were developed and are important
- FAA/EASA requirements to demonstrate compliance
- New Level A definitions, per CATA committee
- Part 23 Amendment 64 HIRF/Lightning Policy
- DO-160 Equipment Qualification
- Full Aircraft Certification and Testing, including methods for data reduction
- Pitfalls and problems
- Installation design issues
- Discussion of 25.981/25.954 Rule Revision and Compliance
- EME Modeling
- Direct Effects of Lightning Design and Compliance
- Discussion on PED tolerance Policy and Compliance

With emphasis on practical experience to certification and design guidance, this workshop is particularly relevant to engineers and technicians involved in all aspects of EME compliance, including aircraft HIRF and Lightning Clearance. As part of the practical presentations, the class will be provided demonstrations within the EME lab demonstrating critical aspects of the HIRF/IEL Compliance testing and design.

REGISTER:

www.wichita.edu/research/NIAR/Workshops/hirf.php



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