

ELECTROMAGNETIC COMPATIBILITY CONSULTING & TESTING, CALIBRATIONS, CERTIFICATIONS, COMPONENTS, SEMINARS

EMC-Basics, HIRF/HERF – Electromagnetic Effects (EME) in Aircraft

**Public Seminar
in English Language**

2020-05-11 to 2020-05-13



SEMINAR PROGRAM

11.03.03E1

EMC-Basics, High Intensity/High Energy Radiated Fields – HIRF/HERF Electromagnetic Effects (EME) in Aircraft

Three Days Seminar

Seminar venue

The seminar takes place in the EMCC Seminar Center in Unterleinleiter. It is located at the EMCC Test Labs site, which among others provide aircraft EMC services. The broad area of activities can be viewed on www.EMCC.de.

The EMCC aircraft group with the associated labs are an ideal environment for the seminar. The vast experience in aircraft measurements, system and equipment testing is combined with the latest high end test infrastructure. This site is also location of design and manufacture of HIRF generators, NEMP generators and direct as well as indirect lightning generators. These meet and exceed maximum levels of current standards and specifications.

The combination of experience and infrastructure enables an experimental portion which includes demonstrations and seeing test setups. Visits and experiments are conducted in small groups. Various kind of sites are part of the course, among them are anechoic chamber, open area test site (OATS), GTEM cell, TEM cell, reverberation chamber as well as lightning test setups. Examples are provided. Discussion and questions will be part of the seminar. Seminar notes in English language are included in the fee as well as lunch snack and coffee breaks.

Contents

- EMC-Basics
- Physical Phenomena
- Certification regulation and standards
- Associated Test Methods and procedures
- Aircraft, system and avionics design rules to reach HIRF compliance
- Simulation
- Visit of EMC labs

Who should attend?

- Young Professionals in EMC
- EMC technicians and engineers
- Equipment designers
- System designers and integrators
- EMC test staff
- EMC project managers
- Certification staff

SEMINAR PROGRAM

11.03.03E2

EMC-Basics, High Intensity/High Energy Radiated Fields – HIRF/HERF Electromagnetic Effects (EME) in Aircraft

Three Days Seminar

Day 1: EMC-Basics

History of EMC/EMI
Examples of EMC/EMI
Mathematical and physical basics of EMC
Basic EMC Tests and Test setups
Essence of EMC/EMI
EMC Standards
Basics of EMI Prevention
Basic EMC Devices

Day 2: HIRF/HERF Approach to Compliance

Physical Phenomena
Certification regulations and standards
Associated Test Methods and procedures for aircraft, systems and equipment
Test setups
Test and certification planning
Real world issues
Questions and answers
Visit of EMC labs

Day 3: Design rules to meet HIRF/HERF requirements

Installation
Layout
Zoning Concepts
Shielding and Filtering
Protection devices
Numerical EM Simulation
Questions and answers

99.00.02E

To
EMCC DR. RAŠEK
Seminar Center
Stoernhofer Berg 15
91364 Unterleinleiter
Germany

Proj. #

(prepared for window envelope)

F: +49 9194 7262-199

Purchase order #

Reference #

Date

REGISTRATION FORM

for the **Three Days Seminar # 11.03.03E** from **2020-05-11 to 2020-05-13**
Topic: **EMC-Basics, HIRF/HERF – Electromagnetic Effects (EME) in Aircraft** in English language

Seminar venue: **EMCC DR. RAŠEK Seminar Center, in 91364 Unterleinleiter, Stoernhofer Berg 15, Door #1, Germany, T: +49 9194 7263-0, F: +49 9194 7262-199 E: emc.sem@emcc.de.**

Company: _____
Contact: _____
Address: _____
Postcode/Town/City _____
Telephone: _____ Telefax: _____ Mail: _____

Name of participants (for more participants please use separate sheet): Position:

1. _____
2. _____
3. _____
4. _____

Hotel accommodation required: yes no, from _____ to _____, for ___ persons
for ___ nights.

Seminar fees: EUR 2,120.00 per participant, VAT additionally if applicable.

The EMCC general conditions will be accepted with the booking. Seminar fees are due to receipt of invoice or 14 days before seminar start, latest.

(Place, date)

(Authorized Signature)

Invoicing Address and VAT number:

Nur zum persönlichen Gebrauch bestimmt. Nachdruck - auch auszugsweise - nur nach schriftlicher Genehmigung durch den Autor und unter Quellenangabe gestattet. Alle Rechte vorbehalten.
For personal use, only. This information or any parts thereof may not be reproduced in any form without the written permission of the author.
All rights reserved.

EMCC SEMINARS - TERMS AND CONDITIONS OF PARTICIPATION

REGISTRATION

by MAIL	by FAX	by PHONE	by E-MAIL
EMCC DR. RAŠEK Störnhofer Berg 15 91364 Unterleinleiter Germany	+49 9194 7262-199	+49 9194 7263-0	emc.sem@emcc.de

FEES

The seminar fee must be paid after receipt of the invoice and the confirmation of booking. All invoices must be paid in advance, 14 days prior to the seminar start at the latest.

The costs for all documentation and seminar papers are included in the seminar fee.

The seminar fee is subject to VAT if venue is in Europe.

HOTEL ACCOMODATION

Hotel accommodation is not included in the seminar fee.

If you want us to book your accommodation, please give us a note and we will take care of your accommodation requirements.

Our Guest House HOTEL HAUS-FRANKEN is part of the EMCC Seminar Center Building.

HOW TO FIND US

You will receive a confirmation of booking including location details, also please see www.emcc.de.

CANCELLATIONS

No charges will be considered for cancellations received not later than 14 days prior to the event. Cancellations within 14 to 3 working days before the start of the seminar will be liable for 50 % of the seminar fee. After this date cancellations are liable for the full seminar fee. The same applies to non-appearance or interruption. However, we are happy to accept substitute delegates at any time.

CHANGE OF TERMS

In case of cancellation caused by EMCC DR. RAŠEK (e.g. for sick leave or insufficient number of participants), the entire fee will be refunded.

A change of speakers does not legitimate a reduction of the seminar fee or withdrawal of the booking.

COPYRIGHT

Unauthorised copying or use, as well as transference of seminar papers or disclosure of its contents to third parties is prohibited. Software or a copy of it may neither be taken in parts nor as a whole. Any unauthorised use of software is prohibited. All rights are reserved.

**The terms and conditions set out above are accepted with the seminar booking.
Place of jurisdiction is Bamberg, Germany.**

Nur zum persönlichen Gebrauch bestimmt. Nachdruck - auch auszugsweise - nur nach schriftlicher Genehmigung durch den Autor und unter Quellenangabe gestattet. Alle Rechte vorbehalten.

For personal use, only. This information or any parts thereof may not be reproduced in any form without the written permission of the author.

All rights reserved.

Stoernhofer Berg 15 · 91364 Unterleinleiter · Germany
T: +49 9194 7263-0 · F: +49 9194 7262-199 · E: emc.sem@emcc.de



00.00.00D=E

EMCC Seminar Center & Laboratory

in Unterleinleiter, Germany

