

TESTING, CERTIFICATION AND WORLDWIDE MARKET ACCESS

EMC CAPABILITIES FROM NEMKO DALLAS

FULL SERVICE MILITARY AND AEROSPACE



**Nemko**

## NEMKO DALLAS EMC FACILITIES CAPABILITIES ...

Nemko USA, Inc., operates a full service EMC laboratory in Lewisville, Texas (north Dallas). The facility has approximately 16,000 square feet of test area, a certified 3 meter semi-anechoic chamber, an anechoic chamber, a free space chamber, shielded enclosure and 4 Open Area Test Sites. Nemko has NARTI certified personnel on location to help with your EMC concerns. Nemko is 20 minute's drive from Dallas / Fort Worth Int'l Airport and 30 minutes from Dallas Love Field. This location is extremely convenient for the defense industrial base in the Southeast and South Central US.



### MIL STD / Aerospace Chamber

20 ft long X 12 ft wide X 10 ft high - Door 84"x36"  
28 ft long X 16 ft wide X 12 ft high - Door 84"x36"

9kHz – 18GHz, 200V/m immunity  
30Hz – 40 GHz emissions  
20 ft long X 12 ft wide X 10 ft high - Door 84"x72"  
120/208 VAC 3-phase 50, 60, 400 Hz 30A  
115/200 VAC 1-phase 50, 60, 400Hz 60A  
0 to 60 V DC @ 75A

### RF Anechoic Chamber

80MHz – 6GHz, 150V/m immunity  
80MHz – 18GHz emissions pre-scans

28 ft long X 16 ft wide X 12 ft high - Door 84"x72"

120/208 VAC 3-phase 60 Hz 30A  
115/200 VAC 1-phase 60 Hz 20A  
0 to 60 V DC @ 40A

### 3 Meter Certified Semi- Anechoic Chamber

80MHz – 6GHz, 150V/m immunity  
9kHz – 40 GHz emissions

20 ft long X 12 ft wide X 10 ft high - Door 84"x72"

120/208 VAC 3-phase 60 Hz 30A  
115/200 VAC 1-phase 60 Hz 20A  
0 to 60 V DC @ 40A

**ETL (Environmental Testing Laboratory)** is Nemko Dallas's Environment test lab partner.

ETL is accredited through (LAB) Laboratory Accreditation Bureau and perform the Environmental testing for Nemko Dallas according to:

RTCA-DO 160  
MIL-STD 810

## THE EMC ASSETS PROVIDED BY NEMKO DALLAS ...

The Nemko EMC assets available for client program support RF emission measurements from 10Hz to 110GHz, RF immunity from 9kHz to 18GHz and various other EMI/EMC phenomenon as described below:

### MIL-STD 461 C,D,E,F Test Capabilities

CE101	Power Leads, 30 Hz to 10 kHz
CE102	Power Leads, 10 kHz to 10 MHz
CE106	Antenna Terminal, 10 kHz to 40 GHz
CS101	Power Leads, 30 Hz to 50 kHz
CS106	Conducted Transient Susceptibility
CS109	Structure Current, 60 Hz to 100 kHz
CS114	Bulk Cable Injection, 10 kHz to 400 MHz Curve 1 through 5
CS115	Bulk Cable Injection, Impulse Excitation
CS116	Damped Sinusoidal Transients, Cables Power Leads, 10 kHz to 100 MHz
RE101	Magnetic Field, 30 Hz to 100 kHz
RE102	Electric Field, 10 kHz to 40 GHz
RS101	Magnetic Field, 30 Hz to 100 kHz
RS103	Electric Field, 10 kHz to 18 GHz – <b>200V/m</b>

### RTCA DO-160

Section 15	Magnetic Effect [All]
Section 16	Power Input [All Subsections, All Categories]
Section 17	Voltage Spike [All Categories]
Section 18	Audio Freq Conducted Susceptibility - Power Inputs [AC & DC Line, All Categories]
Section 19	Induced Signal Susceptibility [From: E-Field, H-Field, and Spikes, All Categories]
Section 20	Radio Frequency Susceptibility - Radiated and Conducted (10Khz-1Ghz @200V/M, 1-18Ghz @600V/M)
Section 21	Emission of Radio Frequency Energy [From both Conducted and Radiated Sources, All Categories]
Section 22	Lightning Induced Transient Susceptibility
<b>Waveform Pin Injection Cable Bundle Injection</b>	
1 (70 $\mu$ S)	No requirement level 1 - 4
2 (6.4 $\mu$ S)	No requirement level 1 - 4
3 (1 & 10 MHz)	Level 1 – 5 level 1 - 4
4 (70 $\mu$ S)	Level 1 - 5 level 1 - 4
5B (500 $\mu$ S)	Level 1 - 4 level 1 - 3
5A (120 $\mu$ S)	Level 1 - 4 level 1 - 3
Section 25	Electrostatic Discharge [All categories]

## NEMKO'S MISSION

Nemko contributes to a safer world by sharing knowledge and safeguarding products, environment, people and systems. Nemko creates value for the customer by providing fast and reliable global market access.

### Who We Are

Nemko USA, Inc., is dedicated to providing a full range of value-added EMC-related services to government and industry on a world-wide basis. Additionally, we provide worldwide market access and certification services to a wide range of industries since 1933.

We are a service organization that provides "real help" not just testing.

Nemko are committed to providing our Clients with a full range of value-added Engineering Services in the area of Applied Electromagnetics. Our primary objective is to effectively assist our Clients in achieving cost-effective and timely Electromagnetic Compliance (EMC) for their products.

### In order to achieve our primary objective, we provide:

- "One-stop shopping" environment for our Clients, so that all of their needs can be addressed in a unified and coherent manner. If we cannot accomplish your requirement in our facility, we can provide qualified sub-contracted support for your requirement.
- A superb, career-oriented technical staff, so as to insure that highly competent and experienced operations and supervisory personnel are assigned to work on our Client's Projects. NARTE certified personnel are on Nemko's staff.
- Access to "real help." To that end, we will provide our Clients with:
  - Requirements analysis
  - Test planning, testing services (for development, product performance categorization, qualification/compliance, and life-cycle quality assurance)
  - Mitigation engineering services (at the component, board, subsystem, and systems levels), design consultancy,
  - Technical writing services (including control plans, test plans, test reports, technical files,
  - PDR/CDR presentations
  - An accurate and timely administrative and technical operations system, so that each Client will have full awareness of the proposed and actual costs, schedules, and status of their Programs
  - A highly competitive rate structure for our Services, so that Clients receive fair value for the money
  - Client Confidentiality in all of its forms

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