

G&M New Consulting Group

Today, introducing a new product to market is a risky business. Companies face increasing difficulties and pressure to get their products to market quicker than ever. The loss of an opportunity can have a devastating financial effect in today's competitive environment. With the trend of even shorter design cycles, the pressure is just increasing.

The effects of ignoring Product Safety and Electromagnetic Interference (EMI) can range in nature from simple annoyance to catastrophe. For many firms, there are not adequate in-house resources to properly review the design and test the product for safety and electromagnetic compatibility (EMC) without affecting the product's schedule and final cost. Our experienced and reliable staff of engineers can provide you with all aspects of EMI/EMC and Product Safety consulting and training, from review of preliminary concepts to fixing your problems.

Outsourcing - Outsourcing is one solution to this problem. Taking advantage of outsourcing enables companies to focus on their core competency and use the expertise of independent professionals and methodologies. G&M Compliance delivers a product that will meet all the necessary requirements to ship your product anywhere in the world meeting schedule and avoiding costly mistakes. We provide all the safety and EMI/EMC support without the need to hire full-time regulatory staff or to provide support to your company's existing regulatory personnel. The key areas of expertise include:

- Product Safety Design Guidance and Evaluation
- Electromagnetic Compatibility Design Guidance and Evaluation
- Risk Analysis
- Developing Test Plans and Procedures
- Product Testing
- Troubleshooting and retrofitting
- Agency Assistance & Certification

Design Guidelines - We will work with you to review the design; identify compliance issues; and assist in obtaining the necessary data; performing the required testing; and obtaining certifications. This can include a report calling out the areas reviewed, discussed, with recommendations and proposals for any additional work necessary for compliance for your particular standard. This includes a complete review of:

- Board layout and stack-up
- Signal Integrity
- Wiring/harnessing
- Enclosure design
- System architecture
- Power supply design
- Safety Construction (Electrical & Mechanical)

Prototype/Pre-Compliance Testing - Testing does not have to wait for the final product design to be available. Useful information can also be obtained at an early prototype stage or even at a single board level. Our vast experience can determine if

a potential problem could exist and we can assist you in finding a cost effective solution at this early stage of product design.

- Board level testing
- Cable shielding effectiveness testing
- Enclosure shielding effectiveness testing
- Component level testing
- Emission & Immunity Measurement/Evaluation
- Grounding & Bonding Evaluation
- Safety Construction (Electrical & Mechanical)

Troubleshooting - Occasionally, a system or unit will require some modification during testing. G&M Compliance's experience is an invaluable resource in locating the source of the problem and defining cost effective and timely solutions.

- A State-of-the-Art CASSPER System
- Near Field Probes
- Current Probes
- Finding alternative solutions

Training - For companies that desire for in-house staff, G&M Compliance can provide training seminars for all levels of expertise in the Product Safety and EMI/EMC area. The seminars can be tailored to meet the needs and products of your company. A few of the typical topics include:

- PCB Design for EMI Control
- EMC Fundamentals
- High Frequency Design
- Filter Design
- Shielding Design
- Product Safety Standards and Procedures
- Design for Product Safety Compliance

International and Other Regulatory Compliance Issues - Obtaining domestic and/or international Regulatory Compliance certifications (UL, cUL, CSA, ETL, TUV, CB, CE, FCC, eK, MIC, C-TICK, VCCI, BSMI, GOST-R, CCC, NEBS, MIL, NSF, SEMI, etc.) can be time consuming and expensive. In order to alleviate the burden from the manufacturer, G&M Compliance offers the above consulting services on a project-by-project or on an hourly basis, depending on your preference.

Our goal is to provide you with the most practical, accurate and least expensive solution to your regulatory compliance issues. We have the ability to solve problems before and during the design and testing process and help you expedite and ensure a seamless path to market!