

EME/NIR Studies: Sitesafe's Expertise

We are an industry expert on EME/NIR studies—our clients include carriers, tower companies, service providers, and rooftop management companies from across the United States. Sitesafe's original founders were involved in the drafting of the FCC's Office of Engineering and Technology (OET) Bulletin No. 65: Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields, which provides the established guidelines and suggestions for evaluating site compliance. We have performed approximately 30,000 EME/NIR studies in our history—more than 20,000 since 2001—and have never had one of our studies challenged or rejected by any customer or by the FCC for inaccuracy in our engineering analyses or conclusions. We have 4 licensed P.E.s on staff and they share the responsibility to review, approve and certify each Sitesafe EME/NIR report before delivery to the client.

EME/NIR Study Methodology: Our EME rooftop evaluations include an onsite audit (site inspection, mapping, and measurement collection) and a software analysis using proprietary RF exposure software to determine areas where RF emissions exceed FCC maximum permissible exposure (MPE) limits for both Occupational/Controlled and General Population/Uncontrolled environments. We believe that, due to fluctuating duty cycles and power levels, a software analysis adds supportive data to the onsite measurements—and our analysis is always performed assuming 100% duty cycle and the "worst case" ERP for the most conservative study possible. Sitesafe NIR theoretical analysis (for tower sites) is performed based on information provided by the customer using this same proprietary software and also assuming 100% duty cycle and "worst case" ERP.

Sitesafe stands behind its work. Our approach to performing EME/NIR site evaluations is based on sound engineering principles and years of experience in the field—representing the level of thoroughness and commitment to safety required to deliver our clients the highest quality RF compliance services in the market today.

EME/NIR Studies: Recent Projects

Sitesafe staffs and completes large scale RF compliance projects throughout the United States on a regular basis—we're not limited to certain regions or localities. Our turnaround time is excellent and we maintain a high quality of reporting regardless of the volume of sites. Market based multi-site projects or one-off sites—Sitesafe knows how to complete your project in a timely and professional manner. Here's a snapshot of a few of our larger projects performed in 2007:

	# Sites	Area	Start/Finish
Customer A	700	Midwest – OK, TX, AR, MO, IA, MN, WI	1Q
Customer B	600	Northeast – New England, Philadelphia, Upstate NY	1Q-2Q
Customer C	150	Midwest – MN, WI	2Q
Customer D	200	New York City	3Q
Customer E	300	DC Metro, Virginia	2Q and 4Q
Customer F	175	Montana	3Q
Customer G	90	Florida	4Q

Sitesafe was established to provide independent RF health and safety solutions for the wireless telecommunications industry and specifically to address the FCC regulations and OSHA requirements regarding RF exposure and RF interference. Throughout the years, Sitesafe's product base has grown to include:

- Electromagnetic emissions (EME) evaluations and site safety plans for rooftop sites
- Non-ionizing radiation (NIR) theoretical analysis for tower sites
- RF interference analysis (intermodulation studies)
- RF health and safety training (Peoplesafe®)
- AM detuning
- FAA/FCC coordination, studies, and filings

RF compliance is Sitesafe's primary business focus. We have developed proprietary RF exposure software, services, and training programs that are recognized throughout the industry. All of Sitesafe's reports are reviewed and certified by a licensed Professional Electrical Engineer (P.E.), and our processes for site data collection, measurement standards, and software analysis have been developed, tested, and refined since 1987.

Put Sitesafe to work on your RF compliance project. We look forward to the opportunity to meet and exceed your expectations.