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Comprehensive RF Measurements and Site Surveys

You need a well-designed, interference-free network to attain the desired operation of your system. To be successful, you have to perform critical analyses. No matter how comprehensive your computerized and paper analyses may be, they are no substitute for measuring real-world interference and blockage at a site. Only on-site measurements and surveys can give you the complete picture.

Comsearch's field engineers accurately measure signal level and interference. We detect interference sources and enhance the modeling of a site by determining actual operational parameters. We troubleshoot by identifying

and resolving the effects of Radio Frequency or Electromagnetic Interference and recommend the proper operational characteristics of a site.

We take on-site measurements and perform analyses to create a comprehensive snapshot of the RF environment and pinpoint potential problems within a stand-alone or shared spectrum. Setting up a telecommunications system is a complex undertaking. Doesn't it make sense to hire an experienced, dedicated, and specialized team to ensure it will operate at optimum reliability with minimum interference?

Comprehensive RF Measurements and Site Surveys

Comsearch provides the following field services to ensure that your system runs at peak performance:

- **Site Audits** - verify technical and geographic parameters and determine general site conditions.
- **Site Surveys for Telecommunication Sites** - an extension of the site audit; evaluates viability for installation, potential radiation hazard issues, and feasibility of collocating additional telecommunications infrastructure.
- **Program Management of Telecommunications Site Development** - remove the burden of managing the construction of your site. Comsearch will evaluate proposals, supervise installation, and inspect to ensure quality control. We develop specifications and evaluate test data for acceptance.
- **RF Radiation Hazard Measurements** - determine whether or not an owner/operator of an FCC regulated transmit facility is in compliance with FCC maximum exposure limits.
- **Satellite Earth Station Measurements** - perform Transmit and Receive Earth Station Measurements as required, determine the actual footprint of a satellite, or determine blockage of terrain or structures used to resolve interference cases.
- **Troubleshooting** - determine the source of unknown interference into a telecommunications system and recommend ways to work around, mitigate, or eliminate the interference.
- **Electromagnetic Interference (EMI) Testing** - determine the level of RF energy in a given area that may affect sensitive communication, network, or electronic devices.
- **RF Sweeps for Unlicensed Systems** - assess the interference environment in the unlicensed bands and determine the feasibility of deploying an unlicensed system at a particular site.
- **Terrestrial Microwave Interference Investigation** - evaluate both predetermined and unknown sources of interference into a point-to-point microwave system and identify solutions to attain an interference-free path.
- **Terrestrial Microwave Path Surveys** - pinpoint potential and usually unpredictable obstacles while also determining precise coordinates, ground elevations, and antenna centerlines.
- **Engineer, Furnish and Install Services** - complete turnkey solution from microwave system design, equipment selection, acquisition, installation and commissioning of microwave systems in the licensed, unlicensed and government bands.

For more information on Comsearch and our Comprehensive RF Measurements and Site Survey services, please contact us at 800.318.1234 or visit our web site at www.comsearch.com.



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