

June 2008

Petition for Use of Ku-Band Frequencies

The Utilities Telecom Council (UTC) filed a Petition for Rulemaking requesting the FCC to grant access to the Ku-band uplink frequencies (14.0 – to 14.5 GHz) to the Critical Infrastructure Industry (CII).

The petition calls for use of these frequencies on a secondary basis. The CII which is composed of electric utilities, pipelines, and railroads seeks to use these frequencies for various point-to-point and point-to-multipoint

services. The 14.0 to 14.5 GHz band is widely used by VSAT networks.



Legal Requirements for VoIP Companies

Companies providing Interconnected VoIP Services are now subject to several FCC regulations. Among them include requirements to:

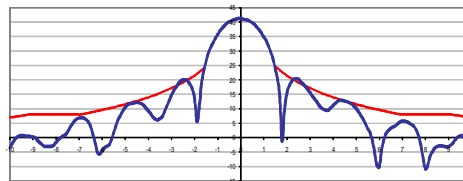
1. Contribute to the Universal Service Fund (USF);
2. Comply with the Communications Assistance for Law Enforcement Act (CALEA) standard (wire tapping);

3. Comply with the emergency 911 standards;
4. Comply with the new Customer Proprietary Network Information (CPNI) rules.

In addition, depending on the nature of the business, Interconnected VoIP Service providers may be required to obtain an international 214 license as well as to abide by prepaid calling reporting requirements.

The Mystery behind 2-Degree Compliance

In satellite communications circles, the term “2-degree compliance” refers to whether an antenna’s radiation patterns fits below the FCC defined envelope or as specified in 47 CFR 25.209. *Continued on page 2*



Did You Know The Law Office of Raul Magallanes procures FCC 214 Licenses?

An FCC 214 License is an authorization required for telecommunications providers seeking to offer international commercial services with an origination or termination point in the United States.

On Your Radar Screen When was the last time you conducted an audit of your licenses?

Telecom licenses such as VSAT and VHF/UHF are granted with certain limits. Once your network changes (e.g. power increase, antenna change), the license must also be modified to stay current.

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Facts of Interest:

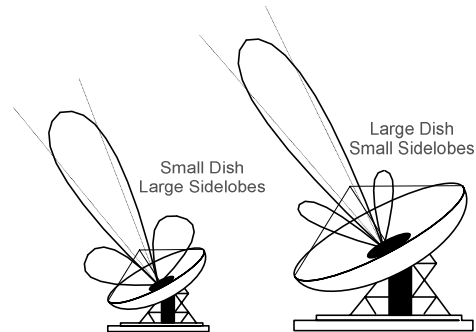
- The FCC International Bureau is responsible for issuing VSAT licenses.
- The FCC maintains a list of international satellites with landing rights in the US at www.fcc.gov/ib/sd/se/permitted.html
- The maximum power density allowed by the FCC on C-band antennas is – 2.7dBW/4KHz measured at the antenna feed.

The Mystery (continued)

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An antenna radiation pattern is formed by placing a receiving device in front of the antenna to measure its gain and then sweeping away from the main beam of the antenna in a semi-circle. The patterns will have a main lobe and several side lobes of smaller magnitude.

The smaller diameter antennas have larger side lobes. Hence, with larger side lobes, smaller diameter antennas may exceed the FCC envelope and are less likely to meet the 2-degree compliance standard.



FCC Equipment Certifications

In order to promote efficiency of the radio spectrum and to comply with international treaties, the FCC has developed technical standards for the operation of radio frequency (RF) equipment.

The FCC requires that all new RF equipment be certified to operate in the United States. These equipment authorizations can be obtained through an application

process where the applicant submits technical data with the results of test measurements demonstrating compliance with FCC standards.

The Law Office of Raul Magallanes assists clients obtain FCC equipment certifications.

New FCC CPNI Regulations

Since December 8, 2007, new FCC Customer Proprietary Network Information (CPNI) regulations have been in effect.

Entities subject to the new rules include resale carriers, facilities-based carriers, wireless providers, prepaid calling card providers, and interconnected VoIP service providers.

Carriers subject to the new rules should update company policies to include:

1. Authorization procedures;

2. Notices of account changes;
3. Marketing restrictions;
4. Annual CPNI certification; and
5. Procedures for responding to CPNI security breaches.

If your company has not revised its CPNI policies to conform to the new FCC regulations, it should do so as soon as possible.

VSAT Licensing in Nigeria

VSAT licensing in Nigeria is regulated by the Nigerian Communications Commission (NCC) which is an independent regulatory authority for the telecommunications industry in the country.

The NCC is responsible for creating an environment for competition among operators in the industry as well as ensuring the provision of telecommunications services in Nigeria.

VSATs are regulated under the Private Network Links type of license and are divided into domestic and international licenses.

The Law Office of Raul Magallanes, has procured and can provide assistance with Nigerian VSAT licenses to clients wishing to operate single a VSAT site or a network of sites in Nigeria.