DuaneMorris®

WILLIAM K. KEANE
DIRECT DIAL: 202.776.5243
E-MAIL: kkeane@duanemorris.com

www.duanemorris.com

May 20, 2011

Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street, S.W.
Washington, DC 20554

Re: WT Docket No. 07-293; ID Docket No. 95-91;
GEN Docket No. 90-357; RM-8610
Ex Parte Notice

Dear Ms. Dortch:

This is in response to a request from Moslem Sawez, Wireless Telecommunications Bureau, for certain performance characteristics of aeronautical mobile telemetry ("AMT") receive facilities; namely, a conservative specification of AMT receiver noise floor and receive signal level values. In response Aerospace and Flight Test Radio Coordinating Council ("AFTRCC") submits the following:

1. Typical AMT system noise temperature: T = 250 K. For 10 MHz bandwidth, corresponding system noise level = 4E(-14) Watts, referred to input of low noise amplifier at AMT ground station antenna feed terminals.

2. The received signal power, taking into account, for example, a ground station antenna gain of 30 dBi, as well as spreading, fading, and multipath losses, is 6.4E(-13) Watts, measured at the input of the low noise amplifier at AMT ground station antenna feed terminals.

AMT systems are noise, not interference limited, and routinely operate at the limits of their performance, e.g. distances of two hundred miles or more. Ground system performance is characterized by the G/T of the ground station, where G is the gain of the ground station antenna. Although larger diameter dishes have higher gain values, their beams are typically too narrow to achieve the high-time-dynamic mechanical tracking requirements of a system that is tracking a rapidly moving/maneuvering aircraft.

We hope this is helpful.

DuaneMorris

A copy of this ex parte statement is being submitted for the public docket via ECFS. Any questions regarding this filing may be referred to the undersigned.

Sincerely,

William K Keane

William K. Keane
Counsel for AFTRCC

cc: Thomas Derenge
Moslem Sawez