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May 2, 2002

VIA ELECTRONIC FILING

Marlene Dortch, Secretary
Federal Communications Commission
The Portals, 12th Street Lobby
445 12th St., SW, Counter TW-A325
Washington, DC 20554

Re: Ex Parte Presentation
IB Docket No. 01-185

Dear Ms. Dortch:

On Wednesday, May 1, 2002, David Otten, Chairman & CEO of Celsat America, Inc. ("Celsat"), and John Quale and the undersigned of this firm met with Ed Thomas, Chief of the Office of Engineering and Technology, and the following members of his staff: Bruce Franca, Julius Knapp, Paul Kolodzy, and Alan Stillwell. At the meeting, Celsat described its ability to implement a 2 GHz mobile satellite service ("MSS) using a fully integrated ancillary terrestrial component ("ATC"). Celsat explained that only the satellite licensee can incorporate an ATC into its MSS system because of the technical issues involved in a mobile (as opposed to fixed) satellite/terrestrial sharing environment. Celsat also noted that, contrary to the claims of many interested parties, terrestrial reuse of MSS spectrum using an ATC can be accomplished without band segmentation. Celsat distributed the attached materials at the meeting to elucidate these issues.

Marlene Dortch
May 2, 2002
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In accordance with Section 1.49(f)(1) of the Commission's rules, an electronic version of this letter is being submitted for inclusion in the docket listed above. Please direct any questions concerning this matter to the undersigned.

Very truly yours,

/s/ Brian Weimer

Enclosures

cc: Ed Thomas
Bruce Franca
Julius Knapp
Paul Kolodzy
Alan Stillwell



CELSAT

WIRELESS COMMUNICATIONS BRIEFING TO THE FCC

April, 2002

**David D. Otten
Chairman and CEO
Celsat America, Inc.**

Proprietary & Confidential to Celsat America, Inc.

Celsat's ATC Design Parameters

- ◆ Maximize ATC Capacity With No Impact On Satellite Services
- ◆ Design Terrestrial Network to Minimize Radiation In Satellite Direction
 - Reverse Mode, Cell Site Null In Satellite Direction
 - Forward or Reverse Mode, Dense Build-out To Keep Power Levels Low
- ◆ Coordinate Channel Assignments On Call-By-Call Basis
 - Avoid Frequencies Assigned To Satellite Users Within Horizon
 - Terrestrial Channel Assignment To Minimize Interference Based On
 - ◆ Terrestrial Users Signal Level At Satellite
 - ◆ Satellite Beam Attenuation At Frequency and Users Location
 - ◆ Current Interference Environment

HOW CELSAT'S ATC WORKS

- ◆ Celsat Will Have 480 Satellite Beams
- ◆ Celsat's MSS Spectrum Will Be Divided Into Twelve Equal Segments With Each Segment Assigned To One Beam In a Cluster of Twelve Beams
- ◆ The Twelve Beam Clusters Are Repeated Across the U.S.
 - In This Manner, Mobile Satellite Spectrum Is Reused Forty Times Across the U.S.
- ◆ With Celsat's System, Satellite and Terrestrial Users Locations Are Known and Used in Channel Assignments on a Real Time Basis for Each Call Set Up
- ◆ Done Correctly, 100% of the Spectrum Can Be Used For MSS With 92% Reused For ATC

ATC FUNDAMENTALS

- ◆ Any Ancillary Terrestrial Component Must Be Controlled by the Satellite Operator or the Terrestrial System Will Jam the Satellite System
 - No One Will Fund a Mobile Satellite System If There Is an Uncontrolled Terrestrial System in the Same Band
 - ◆ Rural Area Would Remain Un-served Indefinitely
- ◆ Unlike DARS, and Despite CTIA Claims, the Satellite System and the ATC Can Operate in the Same Band Without Band Segmentation If Every Call Is Controlled by the Satellite System
- ◆ Celsat's Proposed Terrestrial Service Will Be Truly Ancillary
 - Terrestrial Use Will Not Reduce Celsat's Use of Satellite Spectrum by a Single Hertz
 - Space and Terrestrial Service With a Single Handset

ANYWHERE, ANYTIME

SUBSCRIBER CATEGORY	MONTHLY WHOLESALE PRICE INCLUDING LONG DISTANCE
Mobile Voice	\$3.95 Access, 60 Free Minutes Then 8 Cents/Minute Decreasing to 4 Cents/minute
Internet @ 2mbps To And From Any Home	\$9.95, Unlimited Access Includes Voice
Dbs Return Link @ 2mbps From Any Home	\$4.95, Unlimited Access
Mobile Internet @ 384 Kbps	\$19.95, Unlimited Access
Mobile Personal Digital Assistant	\$19.95, Unlimited Access



Summary of Expected Wholesale Customer Groups

- ◆ Mobile Services-Full U.S.
 - Telematics, e.g. OnStar
 - PCS fill in, e.g. AT&T Wireless, DT VoiceStream
 - Mobile Data, e.g. Palm, Blackberry
- ◆ Fixed Services-Full U.S.
 - Internet Capability for Satellite TV Companies
 - Internet Service Providers, e.g. AOL, Earthlink