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September 29, 2006

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## ***BY ELECTRONIC FILING***

Ms. Marlene H. Dortch  
Secretary  
Federal Communications Commission  
445 Twelfth Street, S.W.  
Room TW-A325  
Washington, D.C. 20554

**Re: Ex Parte Notice  
WT Docket No. 03-264**

Dear Ms. Dortch:

This is to inform you that on September 28, 2006, John Kelly, Chief Executive Officer of Crown Castle International Corp. ("CCI"); Michael Schueppert, President of CCI subsidiary, Modeo, and the undersigned met with Chairman Kevin Martin; FCC Chief of Staff, Daniel Gonzalez; Legal Advisor to Chairman Martin, Fred Campbell; Commissioner Robert McDowell and Legal Advisor to Commissioner McDowell, Angela Giancarlo. In the meetings, we discussed the comments and reply comments filed by CCI in the above-referenced 2002 Biennial Review proceeding, and made the attached presentation.

Pursuant to Section 1.1206(b)(1) of the Commission's rules, I am filing this notice electronically in the above-referenced docket. In addition, I am sending one copy of this notice to the FCC officials who attended the meetings.

Sincerely,



Ari Q. Fitzgerald  
Counsel to Crown Castle International Corp.

cc: Chairman Kevin Martin  
Commissioner Robert McDowell  
Daniel Gonzalez  
Fred Campbell  
Angela Giancarlo

# **Presentation to the FCC on Use of the 1670-1675 MHz Band**

September 28, 2006





Video Enabled Phone:  
Sample Media phone

## Agenda

- Introduction to Modeo
- Review of Applicable FCC Rules
- Description of CCI Power Limit Request



# Modeo at a Glance

## Introduction

Modeo is a subsidiary of Crown Castle International Corp.

## Service Offering

Nationwide DVB-H mobile media network delivering subscription-based video and audio services to wireless handsets

## Wholesale Carrier Model

Enables wireless providers to deliver high quality video and audio to their subscribers

## Unique Assets

Nationwide 5 MHz license at 1670-1675 MHz, broadcast know-how, and 11,000+ towers in the U.S. will allow us to quickly and economically deploy a high-quality network featuring 10+ video channels and 24+ audio channels

## Committed Partners

Motorola, Nokia and Samsung have a strong commitment to our chosen technology (DVB-H) and plan to deliver handsets to support our roll-out



# Crown Castle Background

## Corporate Overview

Crown Castle (NYSE: CCI) is a leading independent owner and operator of wireless network infrastructure. The company provides tower services and end-to-end network management for wireless operators

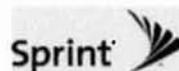
## Broadcast and Content Management Experience

In the UK, Crown Castle developed the Freeview digital broadcast service in partnership with BSkyB and BBC. The service delivers a free-to-air package of 25 networks to more than 5 million viewers

## By the Numbers (2005)

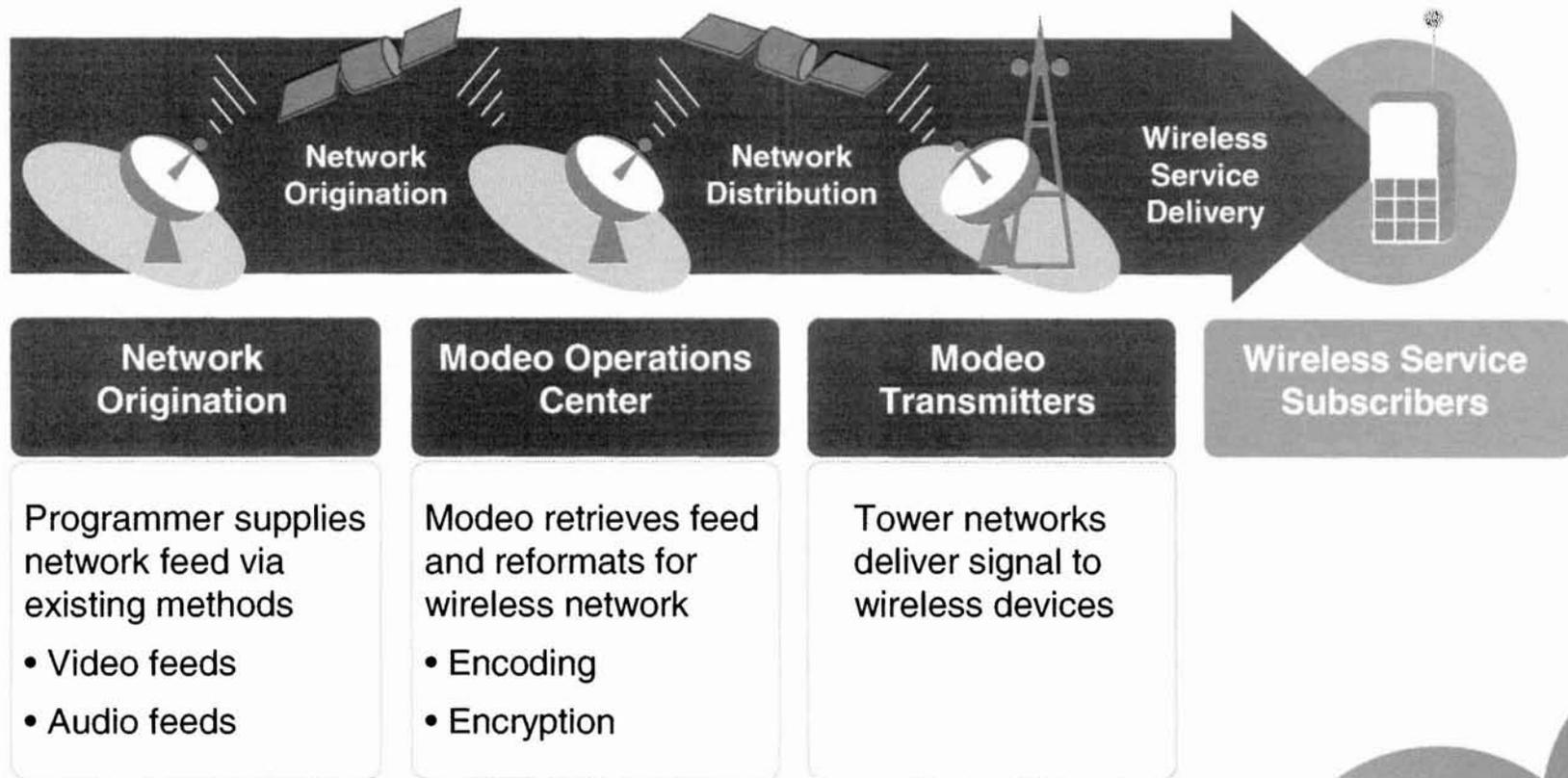
- 11,074 Towers in the U.S.
- Revenue: \$677m
- Market Value: \$7bn
- 68 of Top 100 Markets
- EBITDA: \$335m
- Fixed Assets: \$4bn

## Major US Customers



# Modeo Network Solution

Modeo's nationwide DVB-H network will enable high-quality video and audio content to be delivered at low cost wherever a mobile device can be used



# Applicable FCC Rules

- **Power Limits (FCC Rule § 27.50(f)(1))**
  - Base stations permitted to operate at 2000 Watts EIRP peak (per channel)
- **Out-of-Band Emission Limit (FCC Rule § 27.53(j))**
  - $43 + 10 \text{ Log (P) dB}$
- **Coordination of 1670-1675 MHz operations within Quiet Zones (FCC Rule § 1.924)**
  - NOAA GOES facilities at Wallops Island, VA (100 km), Fairbanks, AK (100 km) and Greenbelt, MD (65 km)
  - NRAO/NRRO facilities at Green Bank and Sugar Grove
  - FCC Field Offices



# CCI Power Limit Proposal

- **Waiver or modification of § 27.50(f)(1) to allow a Power Spectral Density (“PSD”) limit of 4,000 Watts per MHz EIRP in non-rural areas and 8,000 Watts per MHz EIRP in rural areas**
- **No other rule waiver or modification requested**
  - Out of Band Emission Limit contained in § 27.53(j) would remain the same, ensuring protection of adjacent band services
  - No change requested in § 1.924 Quiet Zone Coordination procedures



# Rationale for CCI Power Limit Request

- Promotes technology neutrality by leveling somewhat the playing field between new, wideband technologies like DVB-H and older narrowband technologies
  - Under current rules, narrowband technologies like iDEN and GSM can operate at much higher PSD in a 5 MHz band than wideband technologies like DVB-H because the base station power limit is interpreted to apply on a per channel basis
  - DVB-H channel bandwidth is 5 MHz
- Significantly improves coverage per base station, reducing the number of base stations needed to cover a given area, improving in-building penetration and reducing the cost of network build out
- Promotes spectrum efficiency and the deployment of live mobile video and audio services
- Promotes public safety benefits, potentially allowing more efficient delivery of important emergency alert information to mobile devices



# Impact of Current Power Limits for Selected Technologies

Wireless Technology	Carrier Bandwidth	Power per Channel (Watts EIRP)	Number of Channels in the 1.6 GHz Band	Power Spectral Density EIRP (Watts/5 MHz)	Power Spectral Density EIRP (Watts/MHz)
<i>Mobile Video DVB-H</i>	<i>5 MHz</i>	<i>2,000</i>	<i>1</i>	<i>2,000</i>	<i>400</i>
CDMA	1.25 MHz	2,000	4	8,000	1,600
GSM / GPRS / EDGE	200 kHz	2,000	25	50,000	10,000
TDMA / AMPS	30 kHz	2,000	166	332,000	66,400
iDEN / ESMR	25 kHz	2,000	200	400,000	80,000
Land Mobile (PS)	12.5 kHz	2,000	400	800,000	160,000
N-AMPS	10 kHz	2,000	500	1,000,000	200,000
Land Mobile (PS)	6.25 kHz	2,000	800	1,600,000	320,000



# No Harmful Interference Caused by Power Limit Request

- **Existing In-Band and Adjacent Band Operations are Fully Protected**
  - A. In-Band GOES operations are protected by conditioning FCC grant of request on the modest expansion of GOES Coordination Zones at Wallops Island, VA and Fairbanks, AK facilities
  - B. CCI is not requesting any change in the current Out-of-Band Emissions Limit applicable to the 1670-1675 MHz license, so adjacent band operations will continue to be protected
  - C. CCI also is not seeking in any change in applicable § 1.924 Quiet Zone procedures



# NTIA/NOAA Review Process

- Because some grandfathered GOES operations are co-primary on 1670-1675 MHz, before filing the FCC waiver application CCI met with NTIA and NOAA to begin the NTIA/NOAA review process
- NOAA subsequently asked the Department of Defense's Joint Spectrum Center ("JSC") to prepare a report on the CCI request
- The JSC's report was issued to NOAA in December 2005 and forwarded to NTIA for use in its coordination with the FCC
- The JSC report concludes that, as a condition to granting CCI's request, the radii of the existing GOES coordination zones at Greenbelt, MD and Fairbanks, AK should be expanded from 65 km and 100 km respectively to 100 km and 180 km respectively
- The JSC report contained no other requirement for completing coordination



# Status of CCI Request

- CCI Waiver application filed at the FCC in August 2005
- NOAA technical review completed by JSC in December 2005 and submitted by CCI to the FCC
- Soon after the completion of the JSC report, CCI indicated to FCC its willingness to be subject to expanded GOES coordination zones recommended in the JSC report
- NTIA has indicated its willingness to make such recommendation whenever the FCC makes a formal request for coordination of the CCI waiver application. However, the FCC has thus far failed to request NTIA coordination
- The FCC sought comment on CCI's proposal in its Biennial Review docket, WT Docket No. 03-264, and only supportive comments were submitted
- The formal pleading cycle in the Biennial Review proceeding has now ended with no commenter opposing the CCI proposal



## Request for FCC Action

- Please expeditiously grant CCI's power limit proposal
- Granting CCI's proposal will facilitate the deployment of valuable new media services in the 1670-1675 MHz band without causing harmful interference to existing services

