

BROADBAND PCS
Auction No. 71 Seminar

Overview of Service Rules and Due Diligence

Keith Harper
Electronics Engineer
Mobility Division, WTB

March 7, 2007

Disclaimer

Nothing herein is intended to supersede any provision of the Commission's rules or public notices. These slides should not be used as a substitute for a prospective applicant's review of the Commission's relevant orders, rules, and public notices. Prospective applicants must familiarize themselves thoroughly and remain current with the Commission's rules relating to the Broadband Personal Communications service, rules relating to application and auction procedures, and the procedures, terms and conditions contained in the Auction No. 71 public notices.

Auction #71 Licenses

38 total licenses

- 3 A block licenses (includes partial markets)
- 26 C block licenses
- 1 D block license
- 2 E block licenses
- 6 F block licenses

BROADBAND PCS CHANNELS

Block	Description	Frequency Bands	Bandwidth
A	15 MHz/15 MHz paired	1850 – 1865, 1930 – 1945 MHz	30
C1	7.5 MHz/7.5 MHz paired	1902.5 – 1910, 1982.5 – 1990 MHz	15
C2	7.5 MHz/7.5 MHz paired	1895 – 1902.5, 1975 – 1982.5 MHz	15
C3	5 MHz/5 MHz paired	1895 – 1900, 1975 – 1980 MHz	10
C4	5 MHz/5 MHz paired	1900 – 1905, 1980 – 1985 MHz	10
C5	5 MHz/5 MHz paired	1905 – 1910, 1985 – 1990 MHz	10
D	5 MHz/5 MHz paired	1865 – 1870, 1945 – 1950 MHz	10
E	5 MHz/5 MHz paired	1885 – 1890, 1965 – 1970 MHz	10
F	5 MHz/5 MHz paired	1890 – 1895, 1970 – 1975 MHz	10

Licensing and Operating Rules

- Rules for Broadband PCS: Sections 24.200 – 24.253.
- License Term: 10 years from initial license grant date.
- Partitioning (dividing geographic areas) and disaggregation (dividing spectrum) are permitted.
- Renewal expectancy for licensees which satisfy build-out construction requirements.

Licensing and Operating Rules

- Build-out Requirements for Broadband PCS...
- 30 MHz Blocks: Within 5 years of being licensed, licensees must serve at least $1/3$ of the population, and within 10 years of being licensed, licensees must serve at least $2/3$ of the population in their licensed area, or provide a showing of “substantial service” to the licensed area within the appropriate 5 or 10 year benchmarks from the original license date.
- 10 MHz and 15 MHz Blocks: Within 5 years of being licensed, licensees must serve at least $1/4$ of the population in their licensed area, or provide a showing of “substantial service” to the licensed area within the appropriate 5 year benchmark from the original license date.

Licensing and Operating Rules in Rural Areas

- **Rural Area:** A county with a population density of 100 persons per square mile or less, based upon the most recent Census data.
- **Power:** There has been an increase in maximum power by 100%. For example, a base station of 300 meters or less in rural areas are allowed an increase from 1640 to 3280 watts EIRP.
- **Substantial Service:** Rules for 30 MHz Broadband PCS licenses were changed to allow carriers to provide substantial service. For rural areas, carriers have a safe harbor option.

Due Diligence

Applicant Responsibility

- Applicants should perform their individual due diligence before proceeding as they would with any new business venture. Applicants are solely responsible for identifying associated risks and for investigating and evaluating the degree to which such matters may affect their ability to bid on, otherwise acquire, or make use of licenses available in Auction No. 71.

Pending Proceedings

- Applicants should also be aware that certain pending and future applications (including those for modification), petitions for rulemaking, requests for special temporary authority, waiver requests, petitions to deny, petitions for reconsideration, informal oppositions, and applications for review before the commission may relate to particular applicants or incumbent licensees or the licenses available in Auction No. 71. In addition, pending and future judicial proceedings may relate to particular applicants or incumbent licensees, or the licenses available in Auction No. 71. Applicants are responsible for assessing the likelihood of the various possible outcomes, and considering their potential impact on spectrum licenses available in this auction.

Due Diligence

Microwave Relocation

- Most of the incumbent private and common carrier fixed microwave service licensees operating in the 1850-1990 MHz band have been relocated.
- Section 101.79 provides that if a Broadband PCS licensee intends to turn on a system within the interference range of an incumbent microwave licensee, it must provide the incumbent at least six months prior written notice, after which the incumbent microwave licensee must cease operations, subject to limited exceptions under Section 101.79.

Broadband PCS Database

- Universal Licensing System:

wireless.fcc.gov/uls

Register: Acquire login and Password

File: Using ULS Online Filing

Searches: Finding Applications and Licenses

Application Filings

- Antenna Structure Registration
wireless.fcc.gov : Antenna Structure Registration
- Major Environmental Action
wireless.fcc.gov : Rules and Regs, Rules 1.1307 - 1.1311
- International Coordination Agreements
 - Canada
www.fcc.gov/ib/sand/agree/files/can-nb/pcs-bb.pdf
 - Mexico
www.fcc.gov/ib/sand/agree/files/mex-nb/pcs1850e.pdf

ULS SEARCH

- For available Auction 71 licenses...
- Go to wireless.fcc.gov/uls and select License Search
- Select Market Based Search
- Enter Market Code (BTA054), Channel Block (F), Radio Service Code (CW), Authorization Type (Regular), and Status (Expired, Canceled, and Terminated)
- Search Results: KNLG214 - Redwood Wireless Minnesota, L.L.C.
- Select Callsign
- License for Redwood Wireless Minnesota, L.L.C.

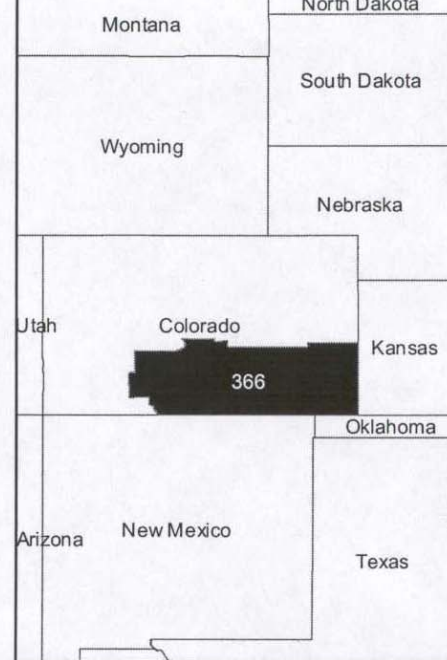
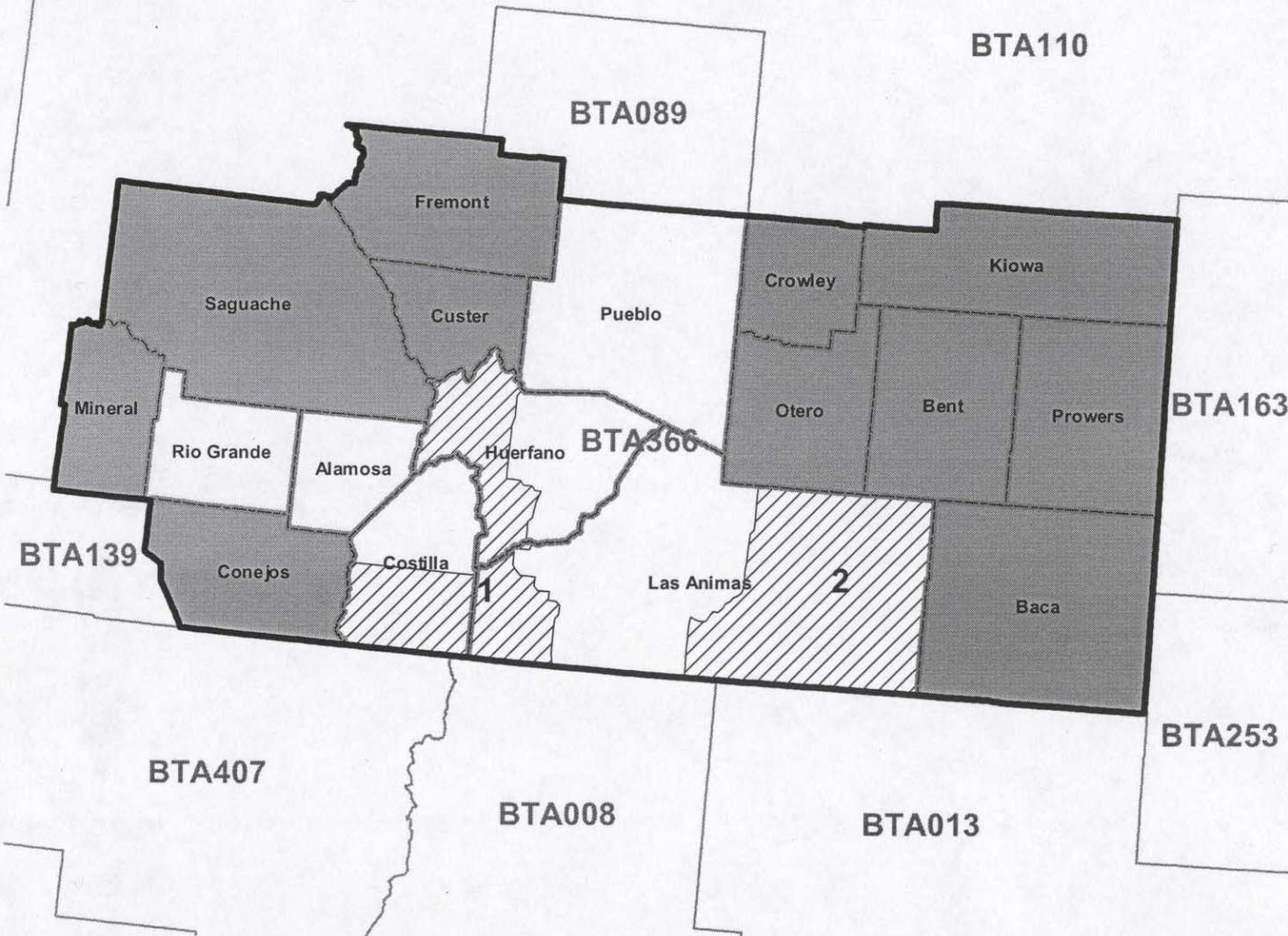
Broadband PCS Database




■ Partial Licenses

In some cases, licenses are available for only a partitioned part of the market, or may be disaggregated and not include all of the spectrum associated with a particular frequency block.



BTA168



-  BTA Boundry
-  Full County For Auction
-  Partial County For Auction

CW-BTA366-E

Federal Communications Commission
Wireless Telecommunications Bureau
Mobility Division

Based on Material Copyright (c) 1992
Rand McNally & Company. Rights granted
pursuant to license from Rand McNally & Company.

AUCTION #71 INFORMATION WEBSITES

- Auction Division: wireless.fcc.gov/auctions
General Information
Pre Auction, Auction, and Post Auction Links
- Wireless Telecommunications Bureau: wireless.fcc.gov
FCC Rules and Regulations
Broadband PCS
- Universal Licensing System: wireless.fcc.gov/uls
Broadband PCS Database
- International Bureau: fcc.gov/ib/sand/agree
International Agreements

Questions?

- Technical or legal - licensing:
 - Keith Harper (engineer) 202-418-0620
 - Michael Connelly (legal) 202-418-0132
- ULS or licensing:
 - Bettye Woodward 202-418-0620
- Legal – auction:
 - Stephen Johnson 202-418-0660
- General auction questions:
 - Roy Knowles or Lisa Stover 717-338-2868

Service Rules and Due Diligence

THE END

Disclaimer: This presentation is provided as informal staff information and assistance; it is not legal advice, nor is it a binding opinion of the WTB or FCC.

Any Questions?

Contact: Keith Harper, 202-418-0620, Keith.Harper@fcc.gov