## (MVDDS) Multichannel Video Distribution and Data Service

Auction #53

#### Disclaimer

These slides are provided by Bureau staff for informational purposes only. 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 MVDDS, rules relating to application and auction procedures, and the procedures, terms and conditions contained in the Auction No. 53 public notices.

Incumbent Licensees **Co-primary licensees** Geographic areas to be licensed (DMAs) **Interference** Criteria **Due Diligence** 

### Incumbent Licensees

- Terrestrial private operational fixed point-to-point (Part 101) stations in the 12.2 – 12.7 GHz frequency band licensed prior to MVDDS.
- Microwave Public Safety Pool (MW)
- Direct Satellite Broadcast Service licensees
- Their Affiliates

## **Co-Primary Licensees**

- MVDDS users will share the 12.2 12.7 GHz band on a co-primary basis.
- Non-geostationary satellite orbit (NGSO)
- Fixed –satellite services (FSS)

#### Licenses to be Auctioned

#### Designated Market Areas (DMAs)

- developed by Nielsen Media Research
- most consist of contiguous geographic areas
  - some composed of multiple noncontiguous areas
  - Commission will not provide populations, counties, or maps to auction bidders or the public
- FCC defined DMA –like service areas
- areas not covered by Nielsen in the United States
  - Guam

- Northern Mariana Islands
- Puerto Rico
- U. S. Virgin Islands

#### **Description of DMAs**

- (DMA) registered trademark of Nielsen Media Research
- Definitions of DMA001-DMA210 may be found at (<u>http://nielsenmedia.com/DMAs.html</u>)
  - Four FCC defined DMA like areas
- DMA211 Alaska Balance of State
- DMA212 Puerto Rico US Virgin Islands
- DMA213 Guam Northern Mariana Islands
- DMA214 American Samoa

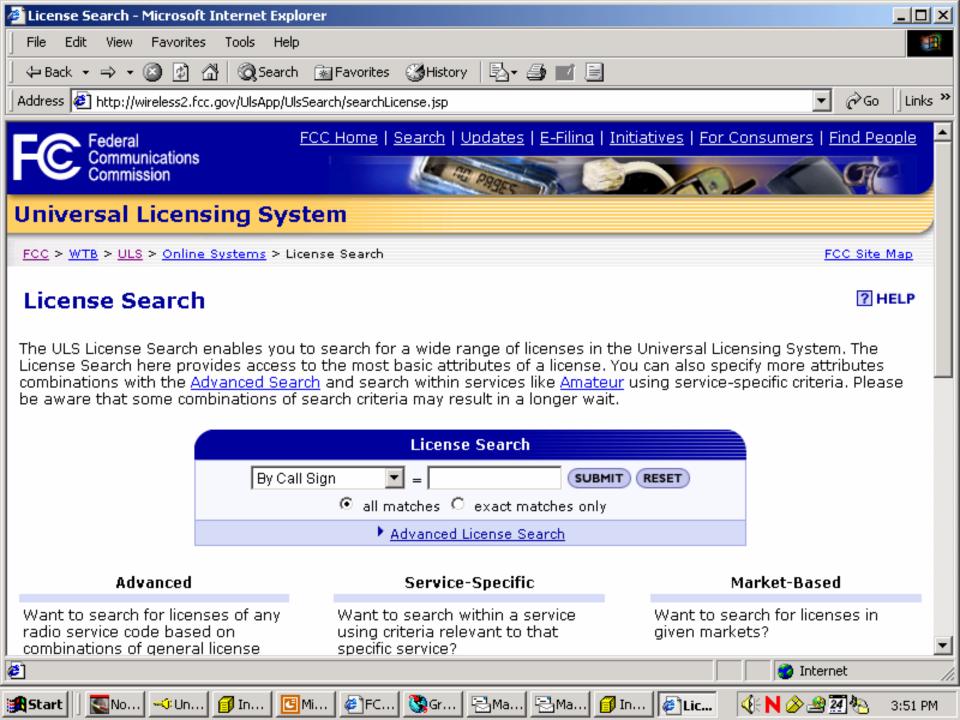
## Interference Criteria

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- 47 C.F.R. § 101.105
Interference protection criteria
47 C.F.R. § 101.1421
   - Coordination of adjacent area MVDDS
 stations and incumbent public safety (MW)
 stations
47 C.F.R. § 101.1440
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- MVDS protection of DBS

Locating MW Incumbents Using the Universal Licensing System (ULS)

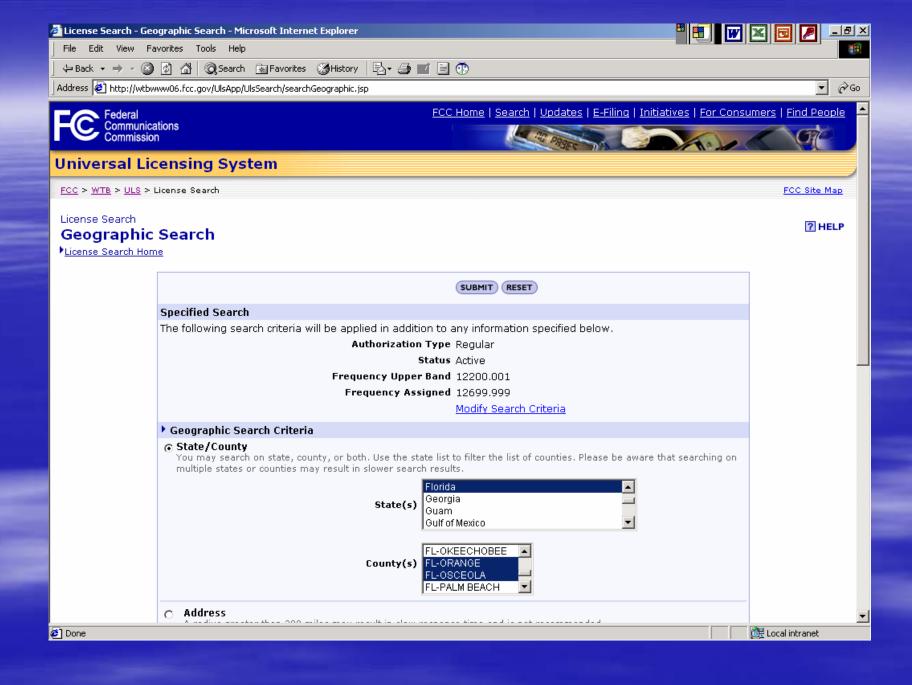
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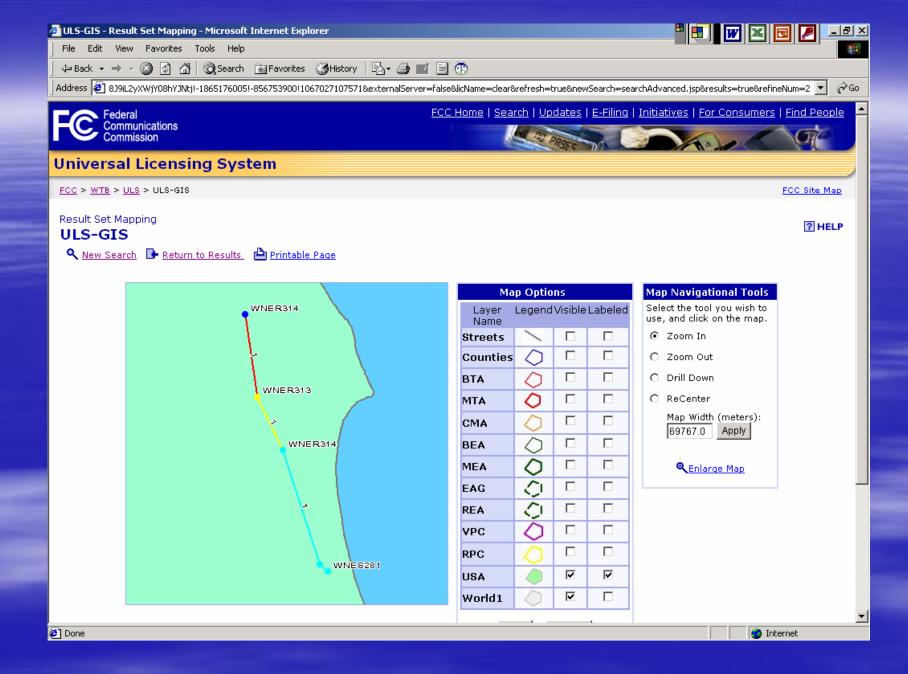


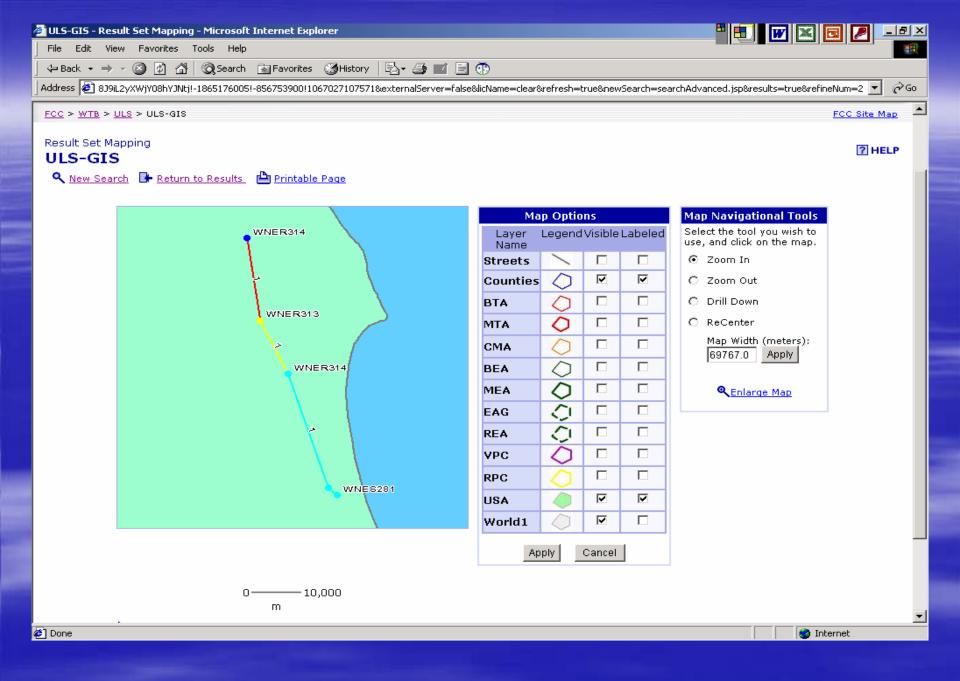
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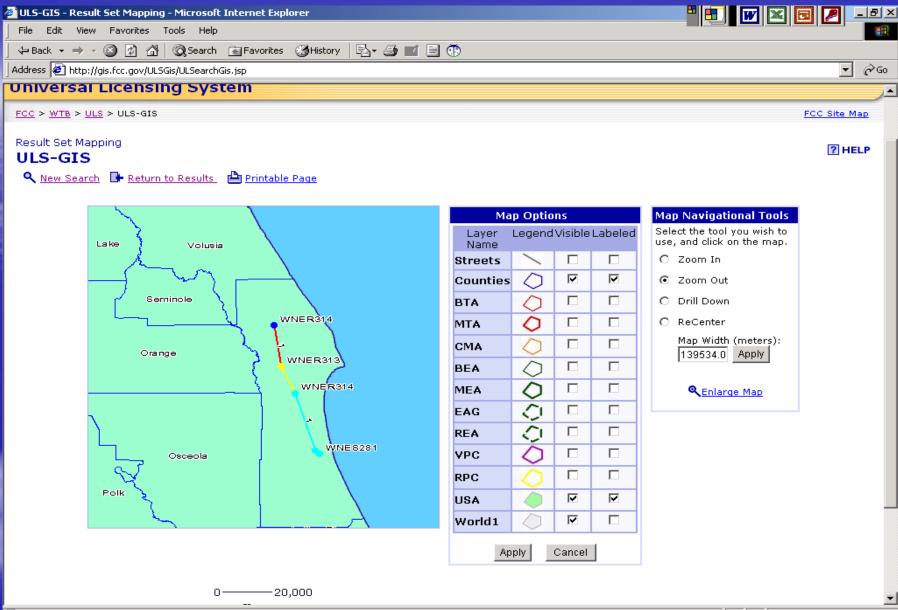
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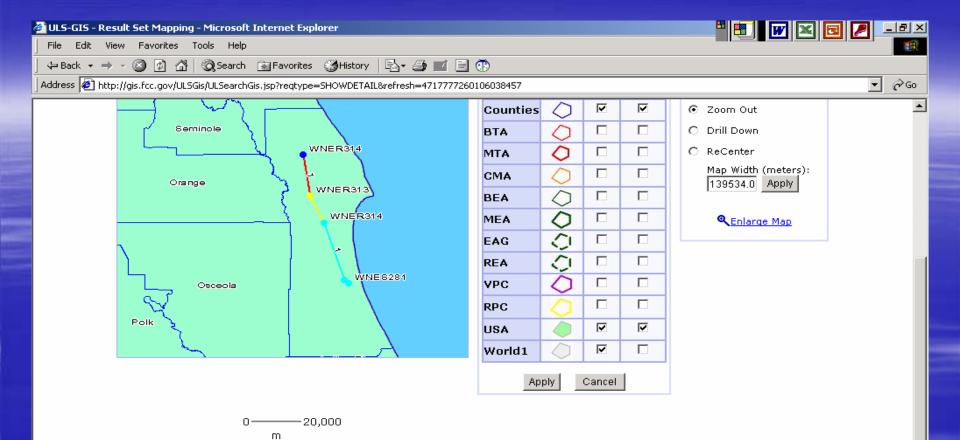






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Effective	02/20/2002		Cancellation			
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09/26/2001	0000603791 AU - Administrative Update		(	Granted	
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Transmit Location		Coordinates	28-36-30.9 N, 080-48-33.1 W	
COUNTY COURTHOUSE TITUSVILLE, FL	E			
BREVARD County				
Site Elevation (AMSL)	4.6m	Height w/o Appurtenances	26.5m	
ASR #		Height w/ Appurtenances	26.5m	
Site Structure				
Special Conditions	None			
Other Locations				
Location 2 : 1718				
Туре	Receive Location	Coordinates	28-26-52.0 N, 080-46-58.1 W	
Site Elevation (AMSL)	7.6m	Height w/o Appurtenances		
ASR #		Height w/ Appurtenances		
Site Structure				
Special Conditions	None			

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Call Sign	WNER313	Radio Service	MW - Microwave Public Safety Pool	
2 Total Locations				
10 Locations per Summa	ary Page			
Fixed Transmit Locat	ion 1: STATION			
Transmit Location		Coordinates	28-36-30.9 N, 080-48-33.1 W	
COUNTY COURTHOUSE TITUSVILLE, FL	E			
BREVARD County				
Site Elevation (AMSL)	4.6m	Height w/o Appurtenances	26.5m	
ASR #		Height w/ Appurtenances	26.5m	
Site Structure				
Special Conditions	None			
Other Locations				
Location 2 : 1718				
Туре	Receive Location	Coordinates	28-26-52.0 N, 080-46-58.1 W	
Site Elevation (AMSL)	7.6m	Height w/o Appurtenances		
ASR #		Height w/ Appurtenances		
Site Structure				
Special Conditions	None			

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Path 1 - Fixed Point-to-Point				
Path Details	Rec. Call Sign	WNER314		
Location	Coordinates			
1718	28-26-52.0 N , 080-	-46-58.1 W		
Path Frequencies				
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1 Total Path Return to Paths Su	immary			Pat	:h: 🚺 - To 1718 🔽 🛛 💿	
Path 1 - PP					STATION to 1718	
Transmit Location		00.40.00.4.141		Eleventiers (AMOL)	4.6-	
Coordinates	28-36-30.9 N, 0		171.8°	Elevation (AMSL)	4.6m	_
Polarization	V - Vertical	Azimuth	1/1.8°	Elevation Angle		
Transmit Antenna						
Height	24.4m	Beamwidth	1.4°	Gain	40.7dBi	
Diversity Antenna						
Height		Beamwidth		Gain		
Periscope Reflect	or					
Height		Width		Separation		-
		STATION to	<b>egment 1</b> : 1718 , 18.100000km			
<b>Receiver Location</b>	: 1718			Call Sign	WNER314	
Coordinates	28-26-52.0 N, 0	80-46-58.1 W		Elevation (AMSL)	7.6m	
Receiver Antenna						
Height	42.7m	Beamwidth		Gain	40.7dBi	
Diversity Antenna		beanwiden		John	1017 001	
Height		Beamwidth		Gain		
Periscope Reflect	or					
Height		Width		Separation		
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Height		Beamwidth		Gain		
Periscope Reflector						
Height		Width		Separation		
		Segn STATION to 171	<b>nent 1</b> : L8 , 18.100000km			
<b>Receiver Location</b> : 1718				Call Sign	WNER314	
Coordinates 28	8-26-52.0 N, 080-46	5-58.1 W		Elevation (AMSL)	7.6m	
Receiver Antenna						
Height 42	2.7m	Beamwidth		Gain	40.7dBi	
Diversity Antenna						
Height		Beamwidth		Gain		
Periscope Reflector						
Height		Width		Separation		
1 Frequencies						
Frequency (MHz)		Tolerance	EIRP	ATPC	Emission Designators	
1 12290.00000		0.00500%	66.7dBm		18M7F9W Digital Modulation Rate: Digital Modulation Rate Type:	
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**Basic Search** 

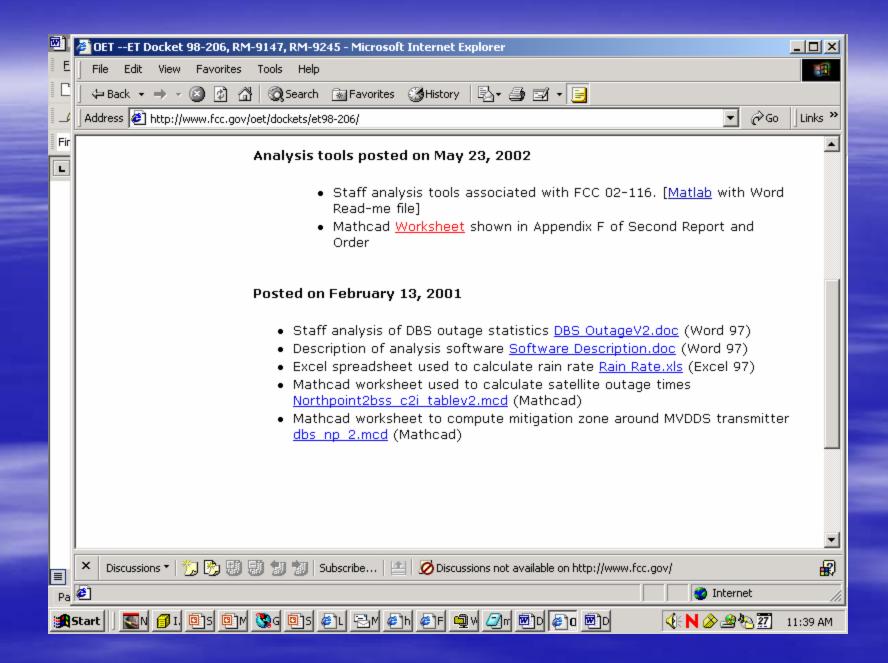
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# Protection of Incumbent DBS licensees

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ET Docket 98-206							
Amendment of Parts 2 and 25 of the Commission's Rules to Permit Operation of NGSO FSS Systems Co-Frequency with GSO and Terrestrial Systems in the Ku-Band Frequency Range and Amendment of the Commission's Rules to Authorize Subsidiary Terrestrial Use of the 12.2-12.7 GHz Band by Direct Broadcast Satellite Licensees and Their Affiliates	¥						
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