

(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 (<http://nielsenmedia.com/DMAs.html>)
- 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

- 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
 - - MVDS protection of DBS

Locating MW Incumbents
Using the Universal Licensing
System (ULS)

<http://wireless.fcc.gov/uls/>



Universal Licensing System

FCC > WTB > ULS > Online Systems > License Search [FCC Site Map](#)

License Search ? HELP

The ULS License Search enables you to search for a wide range of licenses in the Universal Licensing System. The License Search here provides access to the most basic attributes of a license. You can also specify more attributes combinations with the [Advanced Search](#) and search within services like [Amateur](#) using service-specific criteria. Please be aware that some combinations of search criteria may result in a longer wait.

License Search

By Call Sign =

all matches exact matches only

[Advanced License Search](#)

- | | | |
|--|---|---|
| Advanced | Service-Specific | Market-Based |
| Want to search for licenses of any radio service code based on combinations of general license | Want to search within a service using criteria relevant to that specific service? | Want to search for licenses in given markets? |

Advanced License Search

[License Search Home](#)

SUBMIT **GEOSEARCH** **RESET**

*Please be aware that some combinations of search criteria may result in a longer wait.

Call Sign & Radio Services

Call Sign

Service Group

- Match all radio services within this group
- Match only the following radio service(s):

MG - Microwave Industrial/Business Pool
MK - Alaska Group
MR - Marine Radiolocation Land
MS - Multiple Address Service, Auctioned
MW - Microwave Public Safety Pool

Licensee

Name

Licensee ID

FRN

T: Matches licensee mailing address, not transmit locations.

License Detail

Status
[checked] Active [unchecked] Expired
[unchecked] Canceled [unchecked] Terminated

Authorization Type
[checked] Regular [unchecked] Developmental
[unchecked] STA [unchecked] Demonstration

Dates
[dropdown]
[radio] [dropdown]
[radio] From [input] to [input]
(Date Format: MM/DD/YYYY)

Frequencies

Frequency
[radio] Any Frequency
[radio] Exact [input] MHz
[checked] Range [input] MHz to [input] MHz

Customize Your Results

Match Type
[checked] All Matches [radio] Exact Matches Only

Results Display
[10] matches per page
sorted by [Call Sign] in [ascending] order

License Search - Advanced License Search - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites History Print Mail Print Mail

Address [SSIONID_ULSSEARCH=1dvHN5Y7c2fKvb7utRQQWTFOGzkZ26QQYBbc2Rxcwt701YRVD05I-856753900I-1865176005](#) Go Links

Frequencies

Any Frequency
Frequency Exact MHz
 Range MHz to MHz

Customize Your Results

Match Type All Matches Exact Matches Only
Results Display matches per page
 sorted by in order

*Please be aware that some combinations of search criteria may result in a longer wait.

ULS Help	ULS Glossary - FAQ - Online Help - Technical Support
ULS Online Systems	CORES/Call Sign Registration - ULS Filing - License Search - Application Search - Archive License Search
About ULS	Privacy Statement - About ULS - ULS Home
Basic Search	By <input type="text" value="Call Sign"/> = <input type="text" value=""/> <input type="button" value="SUBMIT"/> <input type="button" value="RESET"/>

Local intranet

Start Nov... Inb... Som... MV... Gro... Som... Lice... 9:46 AM



Universal Licensing System

FCC > [WTB](#) > [ULS](#) > License Search [FCC Site Map](#)

License Search [HELP](#)

Geographic Search

[License Search Home](#)

Specified Search

The following search criteria will be applied in addition to any information specified below.

Authorization Type Regular
Status Active
Frequency Upper Band 12200.001
Frequency Assigned 12699.999

[Modify Search Criteria](#)

Geographic Search Criteria

State/County

You may search on state, county, or both. Use the state list to filter the list of counties. Please be aware that searching on multiple states or counties may result in slower search results.

State(s)
Florida
Georgia
Guam
Gulf of Mexico

County(s)
FL-OKEECHOBEE
FL-ORANGE
FL-OSCEOLA
FL-PALM BEACH

Address

Any distance greater than 200 miles may result in slow search results and is not recommended.

Address
 A radius greater than 200 miles may result in slow response time and is not recommended.

Street

City

State

ZIP Code

Radius Kilometers

Coordinates
 This search is based on NAD 83 coordinates ([convert from NAD 27](#)). A radius greater than 200 miles may result in slow response time and is not recommended.

Latitude ° ' " N (+)

Longitude ° ' " W (+)

Radius Kilometers

▸ Frequencies

Any Frequency

Frequency Exact MHz

Range MHz to MHz

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[FCC Site Map](#)

License Search

Search Results

[HELP](#)

[New Search](#) [Refine Search](#) [Printable Page](#) [Query Download](#) [Map License](#)

Specified Search

State = **Florida**
 County = **BREVARD, FLAGLER, MARION, ORANGE, OSCEOLA, SEMINOLE, SUMTER, VOLUSIA**
 Authorization Type = **Regular**
 Status = **Active**
 Frequency Upper Band >= **12200.001**
 Frequency Assigned <= **12699.999**

5 Matches (all results displayed)

PA = Pending Application(s)

	Call Sign	Licensee Name	FRN	Radio Service	Status	Expiration Date
1	WNER313	BREVARD, COUNTY OF	0001802909	MW	Active	06/01/2011
2	WNER314	BREVARD, COUNTY OF	0001802909	MW	Active	06/01/2012
3	WNES281	BREVARD, COUNTY OF	0001802909	MW	Active	06/01/2012
4	WNES282	BREVARD, COUNTY OF	0001802909	MW	Active	06/01/2012
5	WNES283	BREVARD, COUNTY OF	0001802909	MW	Active	06/01/2012

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About ULS	Privacy Statement - About ULS - ULS Home
Basic Search	By Call Sign <input type="text"/> = <input type="text"/> <input type="button" value="SUBMIT"/> <input type="button" value="RESET"/>

Universal Licensing System

[FCC](#) > [WTB](#) > [ULS](#) > ULS-GIS

[FCC Site Map](#)

Result Set Mapping

ULS-GIS

[HELP](#)

[New Search](#) [Return to Results](#) [Printable Page](#)



Map Options		
Layer Name	Legend	Visible Labeled
Streets		<input type="checkbox"/> <input type="checkbox"/>
Counties		<input type="checkbox"/> <input type="checkbox"/>
BTA		<input type="checkbox"/> <input type="checkbox"/>
MTA		<input type="checkbox"/> <input type="checkbox"/>
CMA		<input type="checkbox"/> <input type="checkbox"/>
BEA		<input type="checkbox"/> <input type="checkbox"/>
MEA		<input type="checkbox"/> <input type="checkbox"/>
EAG		<input type="checkbox"/> <input type="checkbox"/>
REA		<input type="checkbox"/> <input type="checkbox"/>
VPC		<input type="checkbox"/> <input type="checkbox"/>
RPC		<input type="checkbox"/> <input type="checkbox"/>
USA		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
World1		<input checked="" type="checkbox"/> <input type="checkbox"/>

Map Navigational Tools

Select the tool you wish to use, and click on the map.

- Zoom In
- Zoom Out
- Drill Down
- ReCenter

Map Width (meters):

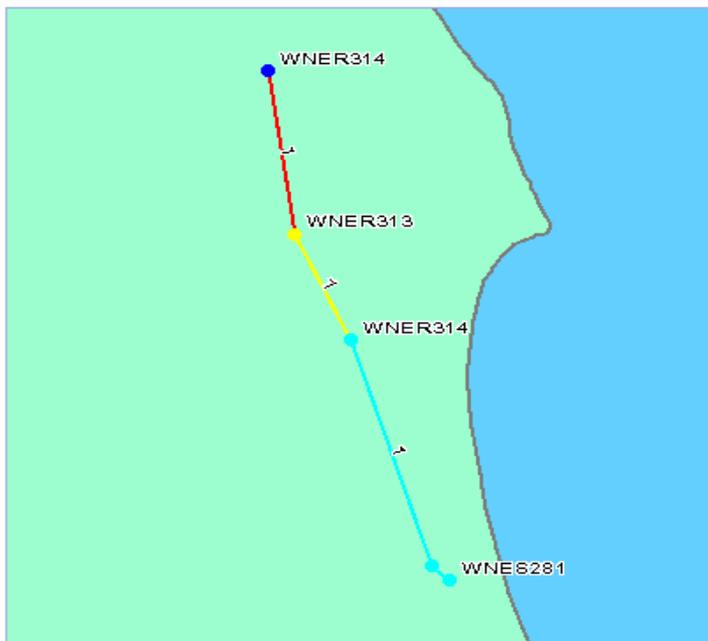
[Enlarge Map](#)

Result Set Mapping

ULS-GIS

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0 ——— 10,000
m

Map Options

Layer Name	Legend Visible	Labeled
Streets	<input type="checkbox"/>	<input type="checkbox"/>
Counties	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BTA	<input type="checkbox"/>	<input type="checkbox"/>
MTA	<input type="checkbox"/>	<input type="checkbox"/>
CMA	<input type="checkbox"/>	<input type="checkbox"/>
BEA	<input type="checkbox"/>	<input type="checkbox"/>
MEA	<input type="checkbox"/>	<input type="checkbox"/>
EAG	<input type="checkbox"/>	<input type="checkbox"/>
REA	<input type="checkbox"/>	<input type="checkbox"/>
VPC	<input type="checkbox"/>	<input type="checkbox"/>
RPC	<input type="checkbox"/>	<input type="checkbox"/>
USA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
World1	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Apply

Cancel

Map Navigational Tools

Select the tool you wish to use, and click on the map.

- Zoom In
- Zoom Out
- Drill Down
- ReCenter

Map Width (meters):

[Enlarge Map](#)

Universal Licensing System

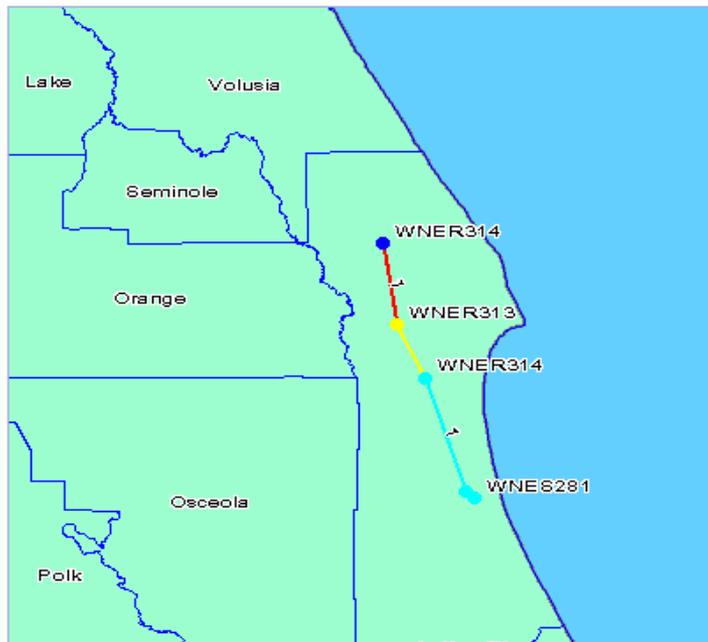
FCC > WTB > ULS > ULS-GIS

[FCC Site Map](#)

Result Set Mapping ULS-GIS

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0 — 20,000

Map Options

Layer Name	Legend	Visible	Labeled
Streets		<input type="checkbox"/>	<input type="checkbox"/>
Counties		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BTA		<input type="checkbox"/>	<input type="checkbox"/>
MTA		<input type="checkbox"/>	<input type="checkbox"/>
CMA		<input type="checkbox"/>	<input type="checkbox"/>
BEA		<input type="checkbox"/>	<input type="checkbox"/>
MEA		<input type="checkbox"/>	<input type="checkbox"/>
EAG		<input type="checkbox"/>	<input type="checkbox"/>
REA		<input type="checkbox"/>	<input type="checkbox"/>
VPC		<input type="checkbox"/>	<input type="checkbox"/>
RPC		<input type="checkbox"/>	<input type="checkbox"/>
USA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
World1		<input checked="" type="checkbox"/>	<input type="checkbox"/>

Apply

Cancel

Map Navigational Tools

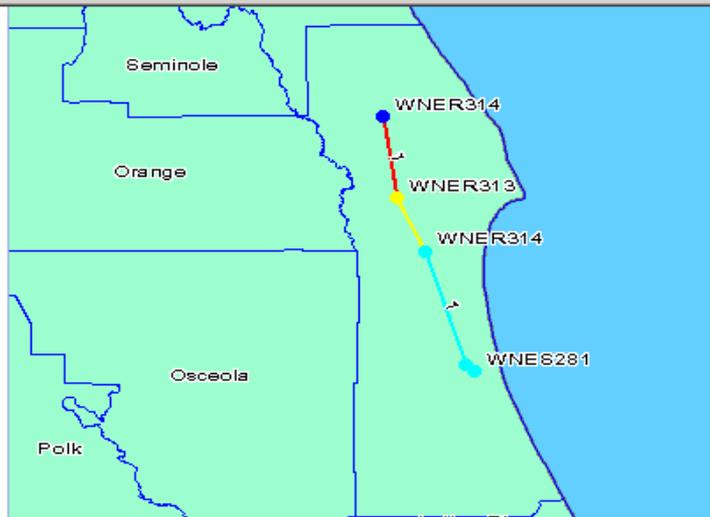
Select the tool you wish to use, and click on the map.

- Zoom In
- Zoom Out
- Drill Down
- ReCenter

Map Width (meters):

139534.0

[Enlarge Map](#)



Counties		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BTA		<input type="checkbox"/>	<input type="checkbox"/>
MTA		<input type="checkbox"/>	<input type="checkbox"/>
CMA		<input type="checkbox"/>	<input type="checkbox"/>
BEA		<input type="checkbox"/>	<input type="checkbox"/>
MEA		<input type="checkbox"/>	<input type="checkbox"/>
EAG		<input type="checkbox"/>	<input type="checkbox"/>
REA		<input type="checkbox"/>	<input type="checkbox"/>
VPC		<input type="checkbox"/>	<input type="checkbox"/>
RPC		<input type="checkbox"/>	<input type="checkbox"/>
USA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
World1		<input checked="" type="checkbox"/>	<input type="checkbox"/>

Apply Cancel

Zoom Out
 Drill Down
 ReCenter
 Map Width (meters):

[Enlarge Map](#)

0 — 20,000
m

[Hide Data Table](#)

Data Table									
	Drill To	Type	Call Sign	Status	Radio Service	License Name	Market Code	Sub Market	Channel Block
	Detail	L	WNER313	A	MW	BREVARD, COUNTY OF			
	Detail	L	WNER314	A	MW	BREVARD, COUNTY OF			
	Detail	L	WNE6281	A	MW	BREVARD, COUNTY OF			
	Detail	L	WNE6282	A	MW	BREVARD, COUNTY OF			
	Detail	L	WNE6283	A	MW	BREVARD, COUNTY OF			

Microwave Public Safety Pool License - WNER313 - BREVARD, COUNTY OF

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[Map License](#)

MAIN		ADMIN		LOCATIONS		PATHS	
Call Sign	WNER313			Radio Service	MW - Microwave Public Safety Pool		
Status	Active			Auth Type	Regular		
Dates							
Grant	02/20/2002			Expiration	06/01/2011		
Effective	02/20/2002			Cancellation			
Control Points							
1	2725 Judge Fran Jamieson Way, Viera, FL P: (321)637-5330						
Licensee							
Licensee ID	L00001497	FRN	0001802909	Type	Governmental Entity		
SGIN	000		(View Ownership)				
Licensee							
BREVARD, COUNTY OF 2725 JUDGE FRAN JAMIESON WAY Viera, FL 32940 ATTN COMMUNICATIONS Division				P:(321)637-5330 F:(321)690-6842 E:eric.conklin@countygovt.brevard.fl.us			
Contact							
Brevard County Communications ERIC L CONKLIN 2725 Judge Fran Jamieson Way, Bldg C Viera, FL 32940				P:(321)637-5330 F:(321)690-6842 E:eric.conklin@countygovt.brevard.fl.us			
Microwave Data							
Oper Type	Permanent Fixed Point to Point			Station Class	FXO - Operational Fixed		

Administration

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[LOCATIONS](#)
[PATHS](#)

Call Sign	WNER313	Radio Service	MW - Microwave Public Safety Pool
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Applications

Receipt Date	File Number and Type	Status
02/19/2002	0000775856 RO - Renewal Only	Granted
09/26/2001	0000603791 AU - Administrative Update	Granted

Automated Letters

01/28/2002	1258297 Renewal Reminder
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External Comments

None

Internal Comments

None

History

07/09/2002	Authorization Printed
07/08/2002	Internal Duplicate Requested
02/20/2002	License Renewed

[All History \(12\)](#)

Special Conditions

Refer to Locations tab and Frequencies on the path tab for special conditions at those levels

None

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Locations Summary

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[LOCATIONS](#)
[PATHS](#)

Call Sign	WNER313	Radio Service	MW - Microwave Public Safety Pool
2 Total Locations			
10 Locations per Summary Page			

Fixed Transmit Location 1: STATION

Transmit Location COUNTY COURTHOUSE TITUSVILLE, FL BREVARD County	Coordinates	28-36-30.9 N, 080-48-33.1 W	
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

Type	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		

Locations Summary

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Call Sign	WNER313	Radio Service	MW - Microwave Public Safety Pool
2 Total Locations			
10 Locations per Summary Page			

Fixed Transmit Location 1: STATION

Transmit Location COUNTY COURTHOUSE TITUSVILLE, FL BREVARD County	Coordinates	28-36-30.9 N, 080-48-33.1 W	
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

Type	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		



Universal Licensing System

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[FCC Site Map](#)

Microwave Public Safety Pool License - WNER313 - BREVARD, COUNTY OF

[HELP](#)

Paths Summary

[New Search](#) [Return to Results](#) [Printable Page](#) [Reference Copy](#) [Map License](#)

MAIN	ADMIN	LOCATIONS	PATHS
Call Sign	WNER313	Locations	Radio Service
Transmitter	STATION		Coordinates
1 Total Path			Path: 1 - To 1718 <input type="button" value="GO"/>
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			
12290.00000			
1 Total Path			Path: 1 - To 1718 <input type="button" value="GO"/>



Microwave Public Safety Pool License - WNER313 - BREVARD, COUNTY OF

[? HELP](#)

Path 1: STATION to 1718

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MAIN		ADMIN		LOCATIONS		PATHS	
Call Sign	WNER313			Radio Service	MW - Microwave Public Safety Pool		
1 Total Path				Path: <input type="text" value="1 - To 1718"/> <input type="button" value="GO"/>			
Return to Paths Summary							
Path 1 - PP STATION to 1718							
Transmit Location: STATION							
Coordinates	28-36-30.9 N, 080-48-33.1 W			Elevation (AMSL)	4.6m		
Polarization	V - Vertical	Azimuth	171.8°	Elevation Angle			
Transmit Antenna							
Height	24.4m	Beamwidth	1.4°	Gain	40.7dBi		
Diversity Antenna							
Height		Beamwidth		Gain			
Periscope Reflector							
Height		Width		Separation			
Segment 1: STATION to 1718 , 18.100000km							
Receiver Location: 1718				Call Sign	WNER314		
Coordinates	28-26-52.0 N, 080-46-58.1 W			Elevation (AMSL)	7.6m		
Receiver Antenna							
Height	42.7m	Beamwidth		Gain	40.7dBi		
Diversity Antenna							
Height		Beamwidth		Gain			
Periscope Reflector							
Height		Width		Separation			

Height		Beamwidth		Gain		
Periscope Reflector						
Height		Width		Separation		
Segment 1: STATION to 1718 , 18.100000km						
Receiver Location: 1718				Call Sign	WNER314	
Coordinates	28-26-52.0 N, 080-46-58.1 W			Elevation (AMSL)	7.6m	
Receiver Antenna						
Height	42.7m	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:
Buildout Dates COSER/IRAC						

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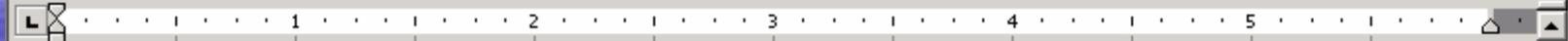
Protection of Incumbent DBS licensees

<http://www.fcc.gov/oet/dockets/et98-206>

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127% New Roman

Final Showing Markup Show



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Address http://www.fcc.gov/oet/dockets/et98-206/

FC Federal Communications Commission

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OET

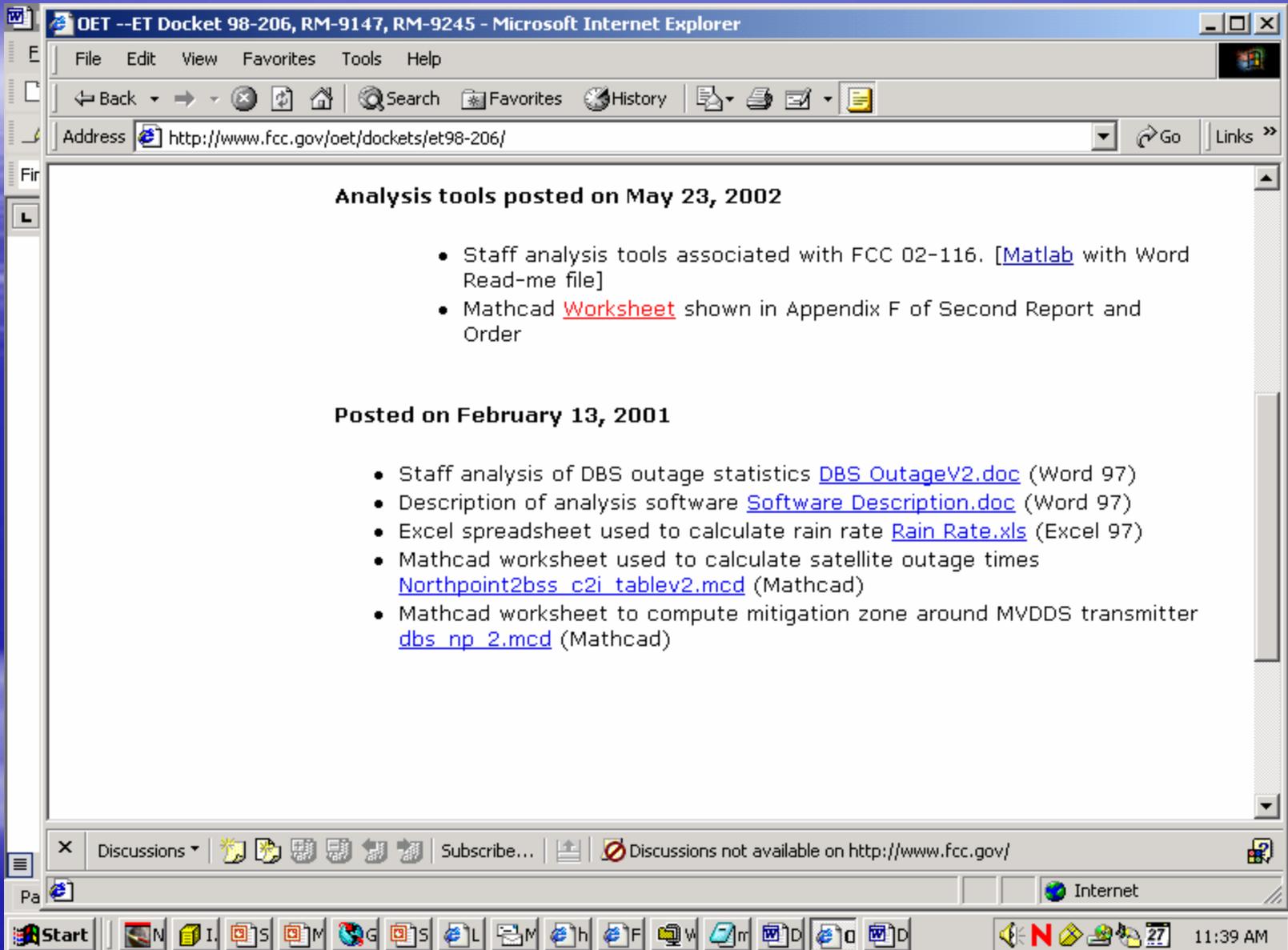
Office of Engineering and Technology

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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

Staff Analysis Information



The End