



19700 Janelia Farm Boulevard, Ashburn, VA 20147  
Phone 703-726-5500 • Fax 703-726-5600  
www.comsearch.com

**Supplemental Showing Pursuant To:**  
78.36(a) Frequency Coordination  
101.103 (d) Frequency Coordination Procedures

**Reference:**

Iridium Constellation LLC  
Job Number: 100830COMSDS02  
BORESIGHT TX - CHANDLER ET4, AZ ; BORESIGHT TX - CHANDLER ET1, AZ. BORESIGHT  
TX - CHANDLER ET4, AZ ; BORESIGHT TX - CHANDLER ET1, AZ.  
18.0 GHz VIDEO MICROWAVE SYSTEM  
Temporary Operation from November 1, 2010 to May 31, 2011  
\*\*\* Expedited Response Requested By September 13, 2010 \*\*\*

The results of the study indicate the proposed frequencies for the above referenced microwave system do not cause interference conflicts with any existing or applied-for facilities in the area. Coordination data for the above referenced microwave route was forwarded to the existing licensees and applicants whose facilities could be affected on August 30, 2010.

Frequencies allocated for standard use were not used since they failed to meet the interference protection criteria as specified in FCC Rule Part 101.105. Therefore non-standard frequencies were assigned to this path for two-way communications in order to follow the predominant plan in the environment in accordance with FCC Rule Part 101.147.

The following carriers or their designated coordination agents were notified, and there are no unresolved interference objections.

**Licensees**

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ALLTEL Comm of the Southwest Ltd Prtnrsh  
ARIZONA BOARD OF REGENTS ARIZONA ST UNIV  
ARIZONA BOARD OF REGENTS UNIV OF ARIZONA  
AT&T CORP  
Abraham Divestiture Company LLC  
Aguia Fria Unified School District  
Airband Communications Inc  
Alda Gold II, LLC.  
Arizona State University - Tempe  
Arizona Telephone Company  
BNCCORP INC.  
Banner Health  
Bluewire LLC  
CNG Communications, Inc.  
City of Avondale  
City of Tuscon IT Department  
Clearwire Spectrum Holdings III, LLC  
Conterra Ultra Broadband, LLC  
Cox Communications Inc - Phoenix, AZ Rgn  
Cricket Communications, Inc  
DESERT DIAMOND CASINO  
Deer Valley Unified School District  
Drexel Heights Fire District  
Dysart Unified School District  
EVDI Medical Imaging, LLC  
El Paso Natural Gas Company  
Glendale Water Utilities Wireless Netwrk

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**(Continued)**

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Golder Ranch Fire District  
Gutierrez-Palmenberg, Inc.  
J.O. Combs Elementary School District  
KOLD License Subsidiary  
MESA, CITY OF  
Marana, Town of  
Maricopa County Wireless Systems  
Metrobridge Networks Licensing, LLC  
Multimedia Holdings Corporation  
NEXTEL LICENSE HOLDINGS 4 INC  
NW Communications of Phoenix, Inc.  
New Cingular Wireless PCS LLC - AZ  
Next Level Solutions  
Nextlink Wireless, Inc  
North West Fire District  
PHOENIX , CITY OF  
Paradise Valley Unified School District  
Peoria, City of  
QWEST CORPORATION  
RADIOLOGY LTD  
Renaissance Networking, Inc.  
SALT RIVER PROJECT AGRI IMP & POWER DIST  
SPANISH INDEPENDENT BROADCAST NETWORK  
SWWG, LLC  
Scottsdale, City of  
Shamrock Foods Company  
Simply Bits, LLC  
Sparkplug Southwest, LLC  
Sprint PCS  
Sprint Spectrum LP DBA Sprint PCS  
Sun Health Corporation  
Surprise City of  
T-Mobile License LLC  
Telink Networks SW, LLC  
Tempe Union High School District #213  
Tempe, City of  
Town of Gilbert  
Trillion Partners, Inc.  
Tucson Unified School District  
University of Arizona - UITS  
Verizon Wireless (VAW) LLC-Southwest Rgn  
Western Broadband, LLC  
Western WiMax LLC



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**Reference:**  
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Job Number: 100830COMSDS02

**(Continued)**

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Respectfully Submitted,  
COMSEARCH

/s/ Dong Shin  
Engineer

**Microwave Path Data Sheet  
COMSEARCH**

19700 Janelia Farm Boulevard, Ashburn, VA, 20147  
(703)726-5653 [www.comsearch.com](http://www.comsearch.com)

PCN Date: 08/30/2010  
Job Number: 100830COMSDS02

New Path  
RCN Number: 10083030

<b>Administrative Information</b>	<b>BORESIGHT TX AZ</b>	<b>CHANDLER ET4 AZ</b>
City/County	Chandler/Maricopa	Chandler/Maricopa
Status / License Basis	Engineering Proposal / PRIMARY OPERATION	Engineering Proposal / PRIMARY OPERATION
Call Sign		
Licensee Code	IRICON	IRICON
Licensee Name	Iridium Constellation LLC	Iridium Constellation LLC
Radio Service / Station Class	CF -- Point-to-Point Microwave, Common Carrier (Part 74 & 101)	FXO -- Fixed

<b>Site Information</b>		
Latitude (NAD 83)	33 ° 16' 3.3" N	33 ° 15' 57.1" N
Longitude (NAD 83)	111 ° 52' 57.9" W	111 ° 52' 52.1" W
Ground Elevation (m/ft-AMSL)	362.70 / 1190.0	363.70 / 1193.2
Antenna Structure Registration #		
Path Azimuth (°)	141.837	321.838
Path Length (km / miles)		0.243 / 0.151

<b>Transmit Antenna</b>	OB0000
Manufacturer	OMNI
Model	OMNI
Gain(dBi) / Beamwidth(°) / Tilt(°)	13.0 / 40.00 / 0.95
Centerline (m / ft - AGL)	4.57 / 15.0

<b>Receive Antenna</b>	OB0000
Manufacturer	OMNI
Model	OMNI
Gain (dBi) / Beamwidth (°)	13.0 / 40.00
Centerline (m / ft - AGL)	7.62 / 25.0

<b>Diversity Receive Antenna</b>	
Manufacturer	
Model	
Gain (dBi) / Beamwidth (°)	
Centerline (m / ft - AGL)	

<b>Radio Information</b>	TEMP20	999999
Manufacturer	ALL MANUFACTURERS	RECEIVE
Model	TEST SIGNAL	ONLY
Model Description		
Emission Designator / Modulation	NON FM	
Loading	1 CH FMV 0.000	1 CH FMV 0.000
Stability (%)	0.001	0.001
	Nominal Coordinated Maximum	Nominal Coordinated Maximum
Power (dBm)		-20.0
Received Level (dBm)		-101.6
EIRP (dBm)		-8.0
Fixed Loss: Tx / Common (dB)	0.0 / 1.0	0.0 / 1.0
Free Space Loss (dB)		105.6

**Transmit Frequency Range (MHz)** 17705.0V - 19765.0000V

**Microwave Path Data Sheet  
COMSEARCH**

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PCN Date: 08/30/2010  
Job Number 100830COMSDS02

New Path  
RCN Number: 10083030

<b>Administrative Information</b>	<b>BORESIGHT TX AZ</b>	<b>CHANDLER ET1 AZ</b>
City/County	Chandler/Maricopa	Chandler/Maricopa
Status / License Basis	Engineering Proposal / PRIMARY OPERATION	Engineering Proposal / PRIMARY OPERATION
Call Sign		
Licensee Code	IRICON	IRICON
Licensee Name	Iridium Constellation LLC	Iridium Constellation LLC
Radio Service / Station Class	CF -- Point-to-Point Microwave, Common Carrier (Part 74 & 101)	FXO -- Fixed

<b>Site Information</b>		
Latitude (NAD 83)	33 ° 16' 3.3" N	33 ° 15' 59.2" N
Longitude (NAD 83)	111 ° 52' 57.9" W	111 ° 52' 54.8" W
Ground Elevation (m/ft-AMSL)	362.70 / 1190.0	363.70 / 1193.2
Antenna Structure Registration #		
Path Azimuth (°)	147.577	327.578
Path Length (km / miles)		0.150 / 0.093

<b>Transmit Antenna</b>	OB0000
Manufacturer	OMNI
Model	OMNI
Gain(dBi) / Beamwidth(°) / Tilt(°)	13.0 / 40.00 / 1.55
Centerline (m / ft - AGL)	4.57 / 15.0

<b>Receive Antenna</b>	OB0000
Manufacturer	OMNI
Model	OMNI
Gain (dBi) / Beamwidth (°)	13.0 / 40.00
Centerline (m / ft - AGL)	7.62 / 25.0

<b>Diversity Receive Antenna</b>	
Manufacturer	
Model	
Gain (dBi) / Beamwidth (°)	
Centerline (m / ft - AGL)	

<b>Radio Information</b>	TEMP20	999999
Manufacturer	ALL MANUFACTURERS	RECEIVE
Model	TEST SIGNAL	ONLY
Model Description		
Emission Designator / Modulation	NON FM	
Loading	1 CH FMV 0.000	1 CH FMV 0.000
Stability (%)	0.001	0.001
	Nominal Coordinated Maximum	Nominal Coordinated Maximum
Power (dBm)		
Received Level (dBm)		-97.4
EIRP (dBm)	-8.0	
Fixed Loss: Tx / Common (dB)	0.0 / 1.0	0.0 / 1.0
Free Space Loss (dB)		101.4

**Transmit Frequency Range (MHz) 17705.0V - 19765.0000V**

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PCN Date: 08/30/2010  
Job Number 100830COMSDS02

New Path  
RCN Number: 10083030

**Administrative Information**

**BORESIGHT TX AZ**  
Chandler/Maricopa  
Engineering Proposal / PRIMARY OPERATION  
  
IRICON  
Iridium Constellation LLC  
CARS -- Cable Antenna Relay System (Part 78)

**CHANDLER ET4 AZ**  
Chandler/Maricopa  
Engineering Proposal / PRIMARY OPERATION  
  
IRICON  
Iridium Constellation LLC  
FXO -- Fixed

**Site Information**

Latitude (NAD 83)	33 ° 16' 3.3" N	33 ° 15' 57.1" N
Longitude (NAD 83)	111 ° 52' 57.9" W	111 ° 52' 52.1" W
Ground Elevation (m/ft-AMSL)	362.71 / 1190.0	363.69 / 1193.2
Antenna Structure Registration #		
Path Azimuth (°)	141.837	321.838
Path Length (km / miles)		0.243 / 0.151

**Transmit Antenna**

OB0000  
Manufacturer OMNI  
Model OMNI  
Gain(dBi) / Beamwidth(°) / Tilt(°) 13.0 / 40.00 / 0.95  
Centerline (m / ft - AGL) 4.57 / 15.0

**Receive Antenna**

OB0000  
Manufacturer OMNI  
Model OMNI  
Gain (dBi) / Beamwidth (°) 13.0 / 40.00  
Centerline (m / ft - AGL) 7.62 / 25.0

**Diversity Receive Antenna**

Manufacturer  
Model  
Gain (dBi) / Beamwidth (°)  
Centerline (m / ft - AGL)

**Radio Information**

Manufacturer	TEMP20	999999
Model	ALL MANUFACTURERS	RECEIVE
Model Description	TEST SIGNAL	ONLY
Emission Designator / Modulation	NON FM	
Loading	1 CH FMV 0.000	1 CH FMV 0.000
Stability (%)	0.001	0.001
Power (dBm)	Nominal Coordinated Maximum	Nominal Coordinated Maximum
Received Level (dBm)		-100.6
EIRP (dBm)	-8.0	
Fixed Loss: Tx / Common (dB)	0.0 / 1.0	0.0 / 0.0
Free Space Loss (dB)		105.6

**Transmit Frequency Range (MHz) 17705.0V - 19765.0000V**

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PCN Date: 08/30/2010  
Job Number 100830COMSDS02

New Path  
RCN Number: 10083030

**Administrative Information**

**BORESIGHT TX AZ**  
City/County: Chandler/Maricopa  
Status / License Basis: Engineering Proposal / PRIMARY OPERATION  
Call Sign:  
Licensee Code: IRICON  
Licensee Name: Iridium Constellation LLC  
Radio Service / Station Class: CARS -- Cable Antenna Relay System (Part 78)

**CHANDLER ET1 AZ**  
City/County: Chandler/Maricopa  
Status / License Basis: Engineering Proposal / PRIMARY OPERATION  
Call Sign:  
Licensee Code: IRICON  
Licensee Name: Iridium Constellation LLC  
Radio Service / Station Class: FXO -- Fixed

**Site Information**

Latitude (NAD 83)	33 ° 16' 3.3" N	33 ° 15' 59.2" N
Longitude (NAD 83)	111 ° 52' 57.9" W	111 ° 52' 54.9" W
Ground Elevation (m/ft-AMSL)	362.71 / 1190.0	363.69 / 1193.2
Antenna Structure Registration #		
Path Azimuth (°)	148.422	328.422
Path Length (km / miles)		0.148 / 0.092

**Transmit Antenna**

OB0000  
Manufacturer: OMNI  
Model: OMNI  
Gain(dBi) / Beamwidth(°) / Tilt(°): 13.0 / 40.00 / 1.56  
Centerline (m / ft - AGL): 4.57 / 15.0

**Receive Antenna**

OB0000  
Manufacturer: OMNI  
Model: OMNI  
Gain (dBi) / Beamwidth (°): 13.0 / 40.00  
Centerline (m / ft - AGL): 7.62 / 25.0

**Diversity Receive Antenna**

Manufacturer:  
Model:  
Gain (dBi) / Beamwidth (°):  
Centerline (m / ft - AGL):

**Radio Information**

TEMP20	999999
Manufacturer: ALL MANUFACTURERS	RECEIVE
Model: TEST SIGNAL	ONLY
Model Description:	
Emission Designator / Modulation: NON FM	
Loading: 1 CH FMV 0.000	1 CH FMV 0.000
Stability (%): 0.001	0.001
	Nominal Coordinated Maximum
Power (dBm):	-20.0
Received Level (dBm):	-96.3
EIRP (dBm):	-8.0
Fixed Loss: Tx / Common (dB): 0.0 / 1.0	0.0 / 0.0
Free Space Loss (dB):	101.3

**Transmit Frequency Range (MHz) 17705.0V - 19765.0000V**