



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

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
Agua 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)

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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Job Number: 100830COMSDS02

(Continued)

Respectfully Submitted,
COMSEARCH

/s/ Dong Shin
Engineer

Microwave Path Data Sheet

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COMSEARCH

19700 Janelia Farm Boulevard, Ashburn, VA, 20147

(703)726-5653 www.comsearch.com

PCN Date: 08/30/2010

Job Number: 100830COMSDS02

New Path

RCN Number: 10083030

Administrative Information

City/County
Status / License Basis
Call Sign
Licensee Code
Licensee Name
Radio Service / Station Class

BORESIGHT TX AZ

Chandler/Maricopa
Engineering Proposal / PRIMARY OPERATION

IRICON
Iridium Constellation LLC
CF -- Point-to-Point Microwave, Common Carrier (Part 74 & 101)

CHANDLER ET4 AZ

Chandler/Maricopa
Engineering Proposal / PRIMARY OPERATION

IRICON
Iridium Constellation LLC
FXO -- Fixed

Site Information

Latitude (NAD 83)
Longitude (NAD 83)
Ground Elevation (m/ft-AMSL)
Antenna Structure Registration #
Path Azimuth (°)
Path Length (km / miles)

33 ° 16' 3.3" N
111 ° 52' 57.9" W
362.70 / 1190.0

141.837
0.243 / 0.151

33 ° 15' 57.1" N
111 ° 52' 52.1" W
363.70 / 1193.2

321.838

Transmit Antenna

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

OB0000
OMNI
OMNI
13.0 / 40.00 / 0.95
4.57 / 15.0

Receive Antenna

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

OB0000
OMNI
OMNI
13.0 / 40.00
7.62 / 25.0

Diversity Receive Antenna

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

Radio Information

Manufacturer
Model
Model Description
Emission Designator / Modulation
Loading
Stability (%)

Power (dBm)
Received Level (dBm)
EIRP (dBm)

Fixed Loss: Tx / Common (dB)
Free Space Loss (dB)

TEMP20
ALL MANUFACTURERS
TEST SIGNAL

NON FM
1 CH FMV 0.000
0.001
Nominal Coordinated Maximum
-20.0
-8.0
0.0 / 1.0
105.6

999999
RECEIVE
ONLY

1 CH FMV 0.000
0.001
Nominal Coordinated Maximum
-101.6
0.0 / 1.0

Transmit Frequency Range (MHz) 17705.0V - 19765.0000V

Microwave Path Data Sheet

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COMSEARCH

19700 Janelia Farm Boulevard, Ashburn, VA, 20147

(703)726-5653 www.comsearch.com

PCN Date: 08/30/2010

Job Number 100830COMSDS02

New Path

RCN Number: 10083030

Administrative Information**BORESIGHT TX AZ****CHANDLER ET1 AZ**

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

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' 54.8" 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

Transmit Antenna

OB0000

Manufacturer

OMNI

Model

OMNI

Gain(dBi) / Beamwidth(°) / Tilt(°)

13.0 / 40.00 / 1.55

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

Nominal Coordinated Maximum

Power (dBm)

-20.0

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

Microwave Path Data Sheet

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COMSEARCH

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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 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

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)	-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

Microwave Path Data Sheet

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COMSEARCH

19700 Janelia Farm Boulevard, Ashburn, VA, 20147

(703)726-5653 www.comsearch.com

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

Chandler/Maricopa
 Engineering Proposal / PRIMARY OPERATION
 IRICON
 Iridium Constellation LLC
 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	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