



Based on the information provided to Micronet Communications, Inc. regarding the location and operations of the earth station we believe there will not be any interference into the surrounding microwave systems from it's temporary operation. If any of the performance characteristics or location differs from what we have been provided, further analysis would be required.



Proposed Test Location (Concord, CA)

Micronet Communications, Inc.  
 720 F Avenue, Suite 100  
 Plano, Texas 75074  
 972-422-7200

File: M1616709

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TECHNICAL CHARACTERISTICS OF TRANSMIT RECEIVE EARTH STATION

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Company: UNKNOWN  
 Site Name, State: Clyde, CA  
 Call Sign:  
 Latitude (NAD83) 38 0 23.0 N  
 Longitude (NAD83) 122 2 38.0 W  
 Elevation AMSL (ft/m) 32.80 10.00  
 Receive Frequency Range (MHz) 3700-4200  
 Transmit Frequency Range (MHz) 6345-6380  
 Range of Satellite Orbital Long. (deg W) 129.00 129.00  
 Range of Azimuths from North (deg) 191.21 191.21  
 Antenna Centerline (ft/m) 12.00 3.66  
 Antenna Elevation Angles (deg) 45.37 45.37

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Equipment Parameters		Receive	Transmit
Antenna Gain, Main Beam	(dbI)	35.50	38.00
15 DB Half Beamwidth	(deg)	3.00	1.00
Antennas	Receive: HARRIS CORP ST5000-2.4 (2.4M) Transmit: HARRIS CORP ST5000-2.4 (2.4M)		
Max Transmitter Power	(dbW/4KHz)		-7.70
Max EIRP Main Beam	(dbW/4KHz)		30.30
Modulation / Emission Designator	ANALOG 3M75G7W		

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Coordination Parameters		Receive	Transmit
Max Greater Circle Distances	(km)	222.57	148.05
Max Rain Scatter Distances	(km)	165.83	100.01
Max Interference Power Long Term	(dbW)	-140.60	-154.00
Max Interference Power Short Term	(dbW)	-118.40	-130.80
Rain Zone / Radio Zone		3	A

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File: N1616709

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TECHNICAL CHARACTERISTICS OF TRANSMIT RECEIVE EARTH STATION

=====

Company: UNKNOWN  
 Site Name, State: Clyde, CA  
 Call Sign:  
 Latitude (NAD83) 38 0 23.0 N  
 Longitude (NAD83) 122 2 38.0 W  
 Elevation AMSL (ft/m) 32.80 10.00  
 Receive Frequency Range (MHz) 3700-4200  
 Transmit Frequency Range (MHz) 6405-6415  
 Range of Satellite Orbital Long. (deg W) 180.00 180.00  
 Range of Azimuths from North (deg) 248.92 248.92  
 Antenna Centerline (ft/m) 12.00 3.66  
 Antenna Elevation Angles (deg) 16.39 16.39

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Equipment Parameters		Receive	Transmit
Antenna Gain, Main Beam	(dbI)	35.50	38.00
15 DB Half Beamwidth	(deg)	3.00	1.00
Antennas	Receive: HARRIS CORP ST5000-2.4 (2.4M) Transmit: HARRIS CORP ST5000-2.4 (2.4M)		
Max Transmitter Power	(dbW/4KHz)		-8.70
Max EIRP Main Beam	(dbW/4KHz)		29.30
Modulation / Emission Designator	ANALOG 4M72G7W		

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Coordination Parameters		Receive	Transmit
Max Greater Circle Distances	(km)	222.57	145.07
Max Rain Scatter Distances	(km)	163.48	100.01
Max Interference Power Long Term	(dbW)	-140.60	-154.00
Max Interference Power Short Term	(dbW)	-118.40	-130.80
Rain Zone / Radio Zone		3	A

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File: P1616709

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TECHNICAL CHARACTERISTICS OF TRANSMIT RECEIVE EARTH STATION

=====

Company: UNKNOWN  
 Site Name, State: Clyde, CA  
 Call Sign:  
 Latitude (NAD83) 38 0 23.0 N  
 Longitude (NAD83) 122 2 38.0 W  
 Elevation AMSL (ft/m) 32.80 10.00  
 Receive Frequency Range (MHz) 3700-4200  
 Transmit Frequency Range (MHz) 6345-6355  
 Range of Satellite Orbital Long. (deg W) 180.00 180.00  
 Range of Azimuths from North (deg) 248.92 248.92  
 Antenna Centerline (ft/m) 12.00 3.66  
 Antenna Elevation Angles (deg) 16.39 16.39

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Equipment Parameters		Receive	Transmit
Antenna Gain, Main Beam	(dbI)	35.50	38.00
15 DB Half Beamwidth	(deg)	3.00	1.00
Antennas	Receive: HARRIS CORP ST5000-2.4 (2.4M) Transmit: HARRIS CORP ST5000-2.4 (2.4M)		
Max Transmitter Power	(dbW/4KHz)		-7.70
Max EIRP Main Beam	(dbW/4KHz)		30.30
Modulation / Emission Designator	ANALOG 3M76G7W		

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Coordination Parameters		Receive	Transmit
Max Greater Circle Distances	(km)	222.57	148.05
Max Rain Scatter Distances	(km)	163.48	100.01
Max Interference Power Long Term	(dbW)	-140.60	-154.00
Max Interference Power Short Term	(dbW)	-118.40	-130.80
Rain Zone / Radio Zone		3	A

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TECHNICAL CHARACTERISTICS OF TRANSMIT RECEIVE EARTH STATION

=====

Company: UNKNOWN  
 Site Name, State: Clyde, CA  
 Call Sign:  
 Latitude (NAD83) 38 0 23.0 N  
 Longitude (NAD83) 122 2 38.0 W  
 Elevation AMSL (ft/m) 32.80 10.00  
 Receive Frequency Range (MHz) 3700-4200  
 Transmit Frequency Range (MHz) 6343-6348  
 Range of Satellite Orbital Long. (deg W) 180.00 180.00  
 Range of Azimuths from North (deg) 248.92 248.92  
 Antenna Centerline (ft/m) 12.00 3.66  
 Antenna Elevation Angles (deg) 16.39 16.39

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Equipment Parameters		Receive	Transmit
Antenna Gain, Main Beam	(dbI)	35.50	38.00
15 DB Half Beamwidth	(deg)	3.00	1.00
Antennas	Receive: HARRIS CORP ST5000-2.4 (2.4M) Transmit: HARRIS CORP ST5000-2.4 (2.4M)		
Max Transmitter Power	(dbW/4KHz)		-3.40
Max EIRP Main Beam	(dbW/4KHz)		34.60
Modulation / Emission Designator	ANALOG 1M40G7W		

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Coordination Parameters		Receive	Transmit
Max Greater Circle Distances	(km)	222.57	162.57
Max Rain Scatter Distances	(km)	163.48	100.01
Max Interference Power Long Term	(dbW)	-140.60	-154.00
Max Interference Power Short Term	(dbW)	-118.40	-130.80
Rain Zone / Radio Zone		3	A

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TECHNICAL CHARACTERISTICS OF TRANSMIT RECEIVE EARTH STATION

=====

Company: UNKNOWN  
 Site Name, State: Clyde, CA  
 Call Sign:  
 Latitude (NAD83) 38 0 23.0 N  
 Longitude (NAD83) 122 2 38.0 W  
 Elevation AMSL (ft/m) 32.80 10.00  
 Receive Frequency Range (MHz) 3700-4200  
 Transmit Frequency Range (MHz) 6035-6055  
 Range of Satellite Orbital Long. (deg W) 180.00 180.00  
 Range of Azimuths from North (deg) 248.92 248.92  
 Antenna Centerline (ft/m) 12.00 3.66  
 Antenna Elevation Angles (deg) 16.39 16.39

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Equipment Parameters		Receive	Transmit
Antenna Gain, Main Beam	(dbI)	35.50	38.00
15 DB Half Beamwidth	(deg)	3.00	1.00
Antennas	Receive: HARRIS CORP ST5000-2.4 (2.4M) Transmit: HARRIS CORP ST5000-2.4 (2.4M)		
Max Transmitter Power	(dbW/4KHz)		-10.50
Max EIRP Main Beam	(dbW/4KHz)		27.50
Modulation / Emission Designator	ANALOG 7M20G7W		

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Coordination Parameters		Receive	Transmit
Max Greater Circle Distances	(km)	222.57	140.17
Max Rain Scatter Distances	(km)	163.48	100.01
Max Interference Power Long Term	(dbW)	-140.60	-154.00
Max Interference Power Short Term	(dbW)	-118.40	-130.80
Rain Zone / Radio Zone		3	A