

Micronet Communications, Inc.

812 Lexington Dr
Plano, Texas 75075
972-422-7200

SUPPLEMENTAL SHOWING PART 101.103(D)

File Number: A2203418
Licensee: SHELL COMMUNICATIONS INC

5.93 GHz

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Pursuant to Parts 25.203 and 101.103(d) of the FCC Rules and Regulations, a frequency coordination study was conducted by Micronet Communications, Inc. for the following proposed earth station:

Enchilada, GM

The results of the study indicate that no unacceptable interference will result with existing, proposed or prior coordinated radio facilities.

Coordination was performed with existing, proposed and prior coordinated carriers within coordination range on the following dates:

02/17/2022 Original PCN

There were no unresolved interference objections.

The attached coordination data was forwarded on the latest date to the following parties within coordination range or their authorized coordination agents:

COMSEARCH INC

Respectfully Submitted,



Jeremy Lewis
Systems Engineer

Attached: 1 data sheet

 * MICRONET COMMUNICATIONS, INC. *

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TECHNICAL CHARACTERISTICS OF TRANSMIT RECEIVE EARTH STATION

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Company: SHELL COMMUNICATIONS INC

Site Name, State: Enchilada, GM

Call Sign:

Latitude (NAD83) 27 52 18.6 N

Longitude (NAD83) 91 59 6.6 W

Elevation AMSL (ft/m) 0.00 0.00

Receive Frequency Range (MHz) 3700.00 4200.00

Transmit Frequency Range (MHz) 5925-59889.325/6108.625-6241.365/
 6360.665-6425

Range of Satellite Orbital Long. (deg W) 109 118

Range of Azimuths from North (deg) 213.21 226.23

Antenna Centerline (ft/m) 198.75 60.58

Antenna Elevation Angles (deg) 52.42 46.65

Equipment Parameters	3.95 GHz	6.17 GHz
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Antenna Gain, Main Beam	(dbI)	38.50	42.00
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15 DB Half Beamwidth	(deg)	4.20	2.60
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Antennas Receive: ASC SIGNAL CORPORATION 243 (2.4M)

Transmit: ASC SIGNAL CORPORATION 243 (2.4M)

Max Transmitter Power	(dBW/4KHz)	-19.60
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Max EIRP Main Beam	(dBW/4KHz)	22.40
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Modulation / Emission Designator Digital 4M30G7W 2M03G7W

Coordination Parameters	3.95 GHz	6.17 GHz
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Max Greater Circle Distances	(km)	336.42	114.64
Max Rain Scatter Distances	(km)	526.17	100.00
Max Interference Power Long Term	(dBW/MHz)	-158.60	-130.80
Max Interference Power Short Term	(dBW/MHz)	-153.90	-102.80
Rain Zone / Radio Zone		1	A

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Horizon Angle	Horizon Gain	Final Contour	-	6.17 GHz TRANSMIT
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Company: SHELL COMMUNICATIONS INC

Site Name, State: Enchilada, GM

Call Sign:

Latitude (NAD83) 27 52 18.6 N Longitude (NAD83) 91 59 6.6 W

North Azimuth (deg)	Horizon Angle (deg)	Horizon Gain (db)	Final Contour (km)	North Azimuth (deg)	Horizon Angle (deg)	Horizon Gain (db)	Final Contour (km)
0	0.00	-21.66	114.1	180	0.00	-13.00	114.1
5	0.00	-23.00	114.1	185	0.00	-13.00	114.1
10	0.00	-23.00	114.1	190	0.00	-13.00	114.1
15	0.00	-23.00	114.1	195	0.00	-12.53	114.1
20	0.00	-23.00	114.1	200	0.00	-11.50	114.1
25	0.00	-23.00	114.1	205	0.00	-10.61	114.1
30	0.00	-23.00	114.1	210	0.00	-10.00	114.1
35	0.00	-23.00	114.1	215	0.00	-10.00	114.1
40	0.00	-23.00	114.1	220	0.00	-10.00	114.1
45	0.00	-23.00	114.1	225	0.00	-10.00	114.1
50	0.00	-23.00	114.1	230	0.00	-10.00	114.1
55	0.00	-23.00	114.1	235	0.00	-10.00	114.1
60	0.00	-23.00	114.1	240	0.00	-10.00	114.1
65	0.00	-23.00	114.1	245	0.00	-10.23	114.1
70	0.00	-22.38	114.1	250	0.00	-11.04	114.1
75	0.00	-20.60	114.1	255	0.00	-12.00	114.1
80	0.00	-18.68	114.1	260	0.00	-13.00	114.1
85	0.00	-16.63	114.1	265	0.00	-13.00	114.1
90	0.00	-14.48	114.1	270	0.00	-13.00	114.1
95	0.00	-12.24	114.1	275	0.00	-13.00	114.1
100	0.00	-10.00	114.1	280	0.00	-13.00	114.1
105	0.00	-10.00	114.1	285	0.00	-13.00	114.1
110	0.00	-10.00	114.1	290	0.00	-13.00	114.1
115	0.00	-10.00	114.1	295	0.00	-13.00	114.1
120	0.00	-10.00	114.4	300	0.00	-13.00	114.1
125	0.00	-10.00	114.6	305	0.00	-11.58	114.1
130	0.00	-10.06	114.6	310	0.00	-10.12	114.1
135	0.00	-11.35	114.5	315	0.00	-10.00	114.1
140	0.00	-12.63	114.2	320	0.00	-10.00	114.1
145	0.00	-13.00	114.1	325	0.00	-10.00	114.1

150	0.00	-13.00	114.1	330	0.00	-10.00	114.1
155	0.00	-13.00	114.1	335	0.00	-10.00	114.1
160	0.00	-13.00	114.1	340	0.00	-11.67	114.1
165	0.00	-13.00	114.1	345	0.00	-14.30	114.1
170	0.00	-13.00	114.1	350	0.00	-16.85	114.1
175	0.00	-13.00	114.1	355	0.00	-19.31	114.1

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Horizon Angle Horizon Gain Final Contour - 3.95 GHz RECEIVE
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Company: SHELL COMMUNICATIONS INC

Site Name, State: Enchilada, GM

Call Sign:

Latitude (NAD83) 27 52 18.6 N Longitude (NAD83) 91 59 6.6 W

North Azimuth (deg)	Horizon Angle (deg)	Horizon Gain (db)	Final Contour (km)	North Azimuth (deg)	Horizon Angle (deg)	Horizon Gain (db)	Final Contour (km)
0	0.00	-14.17	334.5	180	0.00	-10.00	334.5
5	0.00	-15.22	334.5	185	0.00	-10.00	334.5
10	0.00	-15.72	334.5	190	0.00	-10.00	334.5
15	0.00	-16.08	334.5	195	0.00	-10.00	334.5
20	0.00	-16.28	334.5	200	0.00	-10.00	334.5
25	0.00	-16.43	334.5	205	0.00	-10.00	334.5
30	0.00	-16.50	334.5	210	0.00	-10.00	334.5
35	0.00	-16.51	334.5	215	0.00	-10.00	334.5
40	0.00	-16.45	334.5	220	0.00	-9.99	334.5
45	0.00	-16.33	334.5	225	0.00	-9.91	334.5
50	0.00	-16.14	334.5	230	0.00	-9.94	334.5
55	0.00	-15.90	334.5	235	0.00	-10.00	334.5
60	0.00	-15.60	334.5	240	0.00	-10.00	334.5
65	0.00	-15.24	334.5	245	0.00	-10.00	334.5
70	0.00	-14.62	334.5	250	0.00	-10.00	334.5
75	0.00	-13.52	334.5	255	0.00	-10.00	334.5
80	0.00	-12.34	334.5	260	0.00	-10.00	334.5
85	0.00	-11.08	334.5	265	0.00	-10.00	334.5
90	0.00	-9.68	334.5	270	0.00	-10.00	334.5
95	0.00	-7.84	334.5	275	0.00	-10.00	334.5
100	0.00	-6.00	334.5	280	0.00	-10.00	334.5
105	0.00	-6.00	334.5	285	0.00	-10.00	334.5
110	0.00	-6.00	334.5	290	0.00	-10.00	334.5
115	0.00	-6.00	334.5	295	0.00	-10.00	334.5
120	0.00	-8.44	335.4	300	0.00	-10.00	334.5
125	0.00	-10.00	336.2	305	0.00	-10.00	334.5
130	0.00	-10.00	336.4	310	0.00	-10.00	334.5
135	0.00	-10.00	335.9	315	0.00	-10.00	334.5
140	0.00	-10.00	334.8	320	0.00	-7.93	334.5
145	0.00	-10.00	334.5	325	0.00	-6.00	334.5

150	0.00	-10.00	334.5	330	0.00	-6.00	334.5
155	0.00	-10.00	334.5	335	0.00	-6.00	334.5
160	0.00	-10.00	334.5	340	0.00	-7.37	334.5
165	0.00	-10.00	334.5	345	0.00	-9.53	334.5
170	0.00	-10.00	334.5	350	0.00	-11.21	334.5
175	0.00	-10.00	334.5	355	0.00	-12.73	334.5