



Exhibit A

19700 Janelia Farm Boulevard
Ashburn, VA 20147
703-726-5500
Fax 703-726-5596

December 8, 2020

Office of the Secretary
Federal Communications Commission
Washington, DC 20554

Re: Call Sign: E040125
Site: Nuevo, CA
C-Band Transmit/Receive Earth Station

Dear Sir:

This letter is to confirm that the Transmit/Receive Earth Station located in Nuevo, California, (33° 47' 45.1" N, 117° 5' 16.3" W - NAD83) and with the technical parameters coordinated on November 13, 2019, noted on the attached datasheet and under the ownership of Intelsat License LLC, has been under our continuous monitoring and frequency protection service. We have been monitoring all new frequency coordinations on their behalf and maintaining their participation in the frequency coordination process as specified in part 101 of the FCC Rules and Regulations.

We have been protecting this link on behalf of Intelsat License LLC. The technical parameters listed (including frequencies) have not changed and have been protected continuously as noted since November 13, 2019. There are no outstanding protection case issues or objections from any licensed or applied-for licenses in the shared bands of operation.

If you have any questions, or require additional information, please don't hesitate to call me on (703) 726-5656 or by email at DMeyer@Comsearch.com

Sincerely,
COMSEARCH

David E. Meyer
Senior Manager
Frequency Protection Services

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for
Intelsat License LLC
NUEVO, CA
Satellite Earth Station

Prepared By:
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147
November 13, 2019

TABLE OF CONTENTS

1. CONCLUSIONS	3
2. SUMMARY OF RESULTS	4
3. SUPPLEMENTAL SHOWING	5
4. EARTH STATION COORDINATION DATA	7
5. CERTIFICATION	11

1. CONCLUSIONS

An interference study considering all existing, proposed and prior coordinated microwave facilities within the coordination contours of the proposed earth station demonstrates that this site will operate satisfactorily with the common carrier microwave environment. Further, there will be no restrictions of its operation due to interference considerations.

2. SUMMARY OF RESULTS

A number of great circle interference cases were identified during the interference study of the proposed earth station. Each of the cases, which exceeded the interference objective on a line-of-sight basis, was profiled and the propagation losses estimated using NBS TN101 (Revised) techniques. The losses were found to be sufficient to reduce the signal levels to acceptable magnitudes in every case.

3. SUPPLEMENTAL SHOWING

Pursuant to Part 25.203(c) of the FCC Rules and Regulations, the satellite earth station proposed in this application was coordinated by Comsearch using computer techniques and in accordance with Part 25 of the FCC Rules and Regulations.

Coordination data for this earth station was sent to the below listed carriers with a letter dated 10/09/2019.

Company

ABC Holding Company Inc.
AT&T Mobility Spectrum LLC - Arizona
AT&T Mobility Spectrum LLC - Southern CA
Air Sites 2000 LLC
Alltel Comm Southwest Holdings Inc.
Anaheim City, of
Arizona Public Service Company (APS)
Arizona, State Of
BNSF Railway Company
California Internet Solutions, Inc.
California Internet, L.P
California Internet, L.P.
California, State of
Calvary Chapel of Costa Mesa
Cellco Partnership - Southern California
City of Los Angeles Dept Water & Power
City of Montebello
City of West Covina
City of Yuma
Coachella Valley Water District
Coast Community College District
Commnet Four Corners, LLC
DM Ventures, Inc. dba Warp2Biz
DRS Global Enterprise Solutions, Inc.
Entravision Holdings, LLC
Fresno MSA Limited Partnership
Frontier California Inc.
Gila River Cellular General Partnership
Glendale City California
Global Telecom & Technology Americas, In
Go Creative Wireless
GovNET Licenses LLC
Imperial Irrigation District
KTLA, LLC
Kern County Superintendent of Schools
Kern Ed Telecom Consortium
Kern, County of
LDM Engineering
Lightwave Broadband LLC
Los Angeles City Info Technology Agency
Los Angeles County Dept of Public Works

Los Angeles County FCC Licensing Section
 Los Angeles County Metro Transit Auth
 Los Angeles Regional Interoperable Comm
 Los Angeles SMSA Ltd. Partnership
 Los Angeles Unified School District
 MHO Networks
 Maricopa County Wireless Systems
 Metropolitan Water Dist of So California
 Mobile Relay Associates Inc.
 New Cingular Wireless PCS LLC - AZ
 New Cingular Wireless PCS - Los Angeles
 New Cingular Wireless PCS LLC -San Diego
 New Cingular Wireless PCS, LLC - S/E CAL
 Nextel License Holdings 4 Inc.
 Nextel of California Inc.
 Norris, Samuel O
 Northrop Grumman Systems Corp.
 Nrj TV La License Co, LLC
 Olympic Wireless, LLC
 Orange, County of, CA
 Pacific Bell Tel Com dba AT&T California
 Pacific Lightwave Inc
 Qwest Corporation
 Regional 3Cs
 Riverside, County of
 San Bernardino County of California
 San Diego Broadband
 San Diego Gas & Electric Company
 San Diego, City of
 San Diego, County of
 Skyriver Communications
 Southern California Edison Company
 Southern California Gas Company
 Southern California Regional Rail Auth.
 Spectrum Link, Inc.
 Sprint Spectrum L.P.
 Station Venture Operations, LP
 T-Mobile License LLC
 TV Microwaves Company
 Table Top Telephone Company
 Telink Networks SW, LLC
 Time Warner Cable Pacific West LLC
 Tucson Electric Power Company
 Turn Wireless, LLC
 Ultimate Internet Access, Inc
 Union Pacific Railroad Company
 University of California, HPWREN
 Ventura, County of
 Venture Technologies Group, LLC
 Verizon Wireless (VAW) LLC (Southern CA)
 Verizon Wireless (VAW) LLC-N CA/NV
 Verizon Wireless(VAW) LLC-AZ/CO/NM/NV/UT
 Western Broadband Inc.
 Wiline Spectrum Holdings LLC
 Wisprenn

4. EARTH STATION COORDINATION DATA

This section presents the data pertinent to frequency coordination of the proposed earth station that was circulated to all carriers within its coordination contours.

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Date: 11/13/2019
Job Number: 191009COMSGE02

Administrative Information

Status: ENGINEER PROPOSAL
Call Sign: E040125
Licensee Code: INTELS
Licensee Name: Intelsat License LLC

Site Information

NUEVO, CA

Venue Name
Latitude (NAD 83): 33° 47' 45.1" N
Longitude (NAD 83): 117° 5' 16.3" W
Climate Zone: A
Rain Zone: 4
Ground Elevation (AMSL): 566.6 m / 1858.9 ft

Link Information

Satellite Type: Geostationary
Mode: TR - Transmit-Receive
Modulation: Analog and Digital
Satellite Arc: 44° W to 190° West Longitude
Azimuth Range: 99.6° to 260.3°
Corresponding Elevation Angles: 5.3° / 5.5°
Antenna Centerline (AGL): 7.32 m / 24.0 ft

Antenna Information

Receive - FCC32

Transmit - FCC32

Manufacturer	Vertex	Vertex	
Model	11 KPC	11 KPC	
Gain / Diameter	51.8 dBi / 11.0 m	55.5 dBi / 11.0 m	
3-dB / 15-dB Beamwidth	0.44° / 0.84°	0.29° / 0.54°	
Max Available RF Power (dBW/4 kHz)	6.6	6.6	
(dBW/MHz)	30.6	30.6	
Maximum EIRP (dBW/4 kHz)	62.1	62.1	
(dBW/MHz)	86.1	86.1	
Interference Objectives:	Long Term	-156.0 dBW/MHz 20%	-154.0 dBW/4 kHz 20%
	Short Term	-146.0 dBW/MHz 0.01%	-131.0 dBW/4 kHz 0.0025%

Frequency Information

Receive 4.0 GHz

Transmit 6.1 GHz

Emission / Frequency Range (MHz)	500KG7D - 1M50G7D / 3700.0 - 4200.0	850KF7D - 1M50F7D / 5850.0 - 5930.0 850KF7D - 1M50F7D / 6170.0 - 6180.0 850KF7D - 1M50F7D / 6415.0 - 6425.0
Max Great Circle Coordination Distance	678.7 km / 421.7 mi	511.7 km / 317.9 mi
Precipitation Scatter Contour Radius	429.4 km / 266.8 mi	267.9 km / 166.4 mi

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Earth Station Data Sheet

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Coordination Values

NUEVO, CA

Licensee Name Intelsat License LLC
Latitude (NAD 83) 33° 47' 45.1" N
Longitude (NAD 83) 117° 5' 16.3" W
Ground Elevation (AMSL) 566.6 m / 1858.9 ft
Antenna Centerline (AGL) 7.32 m / 24.0 ft
Antenna Model Vertex 11 meter

Antenna Mode Receive 4.0 GHz

Interference Objectives: Long Term -156.0 dBW/MHz 20% Transmit 6.1 GHz -154.0 dBW/4 kHz 20%
Short Term -146.0 dBW/MHz 0.01% -131.0 dBW/4 kHz 0.0025%

Max Available RF Power 6.6 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	1.67	99.58	-10.00	203.43	-10.00	131.01
5	2.33	94.60	-10.00	187.01	-10.00	116.59
10	2.51	89.60	-10.00	182.82	-10.00	113.06
15	2.97	84.61	-10.00	172.10	-10.00	104.29
20	2.91	79.61	-10.00	173.64	-10.00	105.53
25	2.87	74.62	-10.00	174.42	-10.00	106.16
30	3.33	69.61	-10.00	162.01	-10.00	100.00
35	3.55	64.61	-10.00	157.18	-10.00	100.00
40	3.40	59.62	-10.00	160.52	-10.00	100.00
45	3.30	54.63	-10.00	162.76	-10.00	100.00
50	2.96	49.64	-10.00	172.38	-10.00	104.51
55	2.68	44.66	-9.25	182.62	-9.25	112.59
60	2.85	39.67	-7.96	185.16	-7.96	114.21
65	3.71	34.63	-6.49	173.56	-6.49	104.29
70	3.35	29.66	-4.80	190.08	-4.80	117.19
75	3.22	24.69	-2.81	202.89	-2.81	126.90
80	4.02	19.64	-0.33	199.55	-0.33	122.28
85	3.58	14.70	2.81	223.57	2.81	141.06
90	3.63	9.75	7.27	253.55	7.27	161.28
95	2.67	5.31	13.86	337.01	13.86	216.19
100	2.87	2.49	22.11	633.43	22.11	472.47
105	3.59	5.41	13.67	306.66	13.67	197.32
110	3.84	9.29	7.80	252.03	7.80	159.20
115	3.90	13.23	3.96	223.66	3.96	140.10
120	3.97	17.11	1.17	205.95	1.17	128.84
125	3.90	20.98	-1.04	197.94	-1.04	121.42
130	4.02	24.62	-2.78	186.46	-2.78	112.87
135	3.86	28.31	-4.30	181.80	-4.30	110.03
140	3.93	31.69	-5.52	173.88	-5.52	104.29
145	4.30	34.62	-6.48	160.06	-6.48	100.00
150	3.70	38.00	-7.49	166.66	-7.49	100.53
155	2.47	41.61	-8.48	191.21	-8.48	119.53
160	2.26	44.09	-9.11	192.93	-9.11	121.28
165	3.07	45.23	-9.39	172.88	-9.39	104.69
170	3.59	46.07	-9.59	158.37	-9.59	100.00
175	5.00	45.46	-9.44	135.78	-9.44	100.00
180	4.68	46.03	-9.58	139.70	-9.58	100.00
185	5.13	45.33	-9.41	134.61	-9.41	100.00

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Antenna Mode Receive 4.0 GHz

Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

Transmit 6.1 GHz

-154.0 dBW/4 kHz 20%
-131.0 dBW/4 kHz 0.0025%

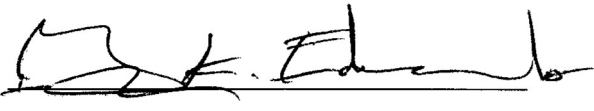
Max Available RF Power

6.6 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	5.56	44.17	-9.13	132.81	-9.13	100.00
195	5.94	42.61	-8.74	130.77	-8.74	100.00
200	5.88	40.98	-8.31	133.05	-8.31	100.00
205	4.94	39.62	-7.95	142.94	-7.95	100.00
210	5.39	36.70	-7.12	141.60	-7.12	100.00
215	5.35	33.85	-6.24	146.06	-6.24	100.00
220	5.83	30.35	-5.06	146.47	-5.06	100.00
225	5.63	27.12	-3.83	154.71	-3.83	100.00
230	5.55	23.63	-2.34	163.81	-2.34	100.00
235	5.55	19.93	-0.49	176.11	-0.49	103.00
240	5.40	16.22	1.75	190.76	1.75	113.22
245	5.30	12.39	4.67	205.97	4.67	126.06
250	4.90	8.67	8.55	236.44	8.55	145.19
255	4.17	5.06	14.39	297.29	14.39	189.77
260	4.35	1.17	30.32	678.72	30.32	511.73
265	4.03	4.92	14.70	303.10	14.70	193.66
270	3.61	9.88	7.13	252.81	7.13	160.86
275	4.02	14.78	2.76	213.80	2.76	134.23
280	3.54	19.80	-0.41	206.14	-0.41	130.23
285	2.69	24.85	-2.88	211.07	-2.88	134.96
290	0.97	30.01	-4.93	250.76	-4.93	173.94
295	0.43	35.02	-6.61	278.57	-6.61	198.19
300	0.00	40.02	-8.06	297.94	-8.06	212.43
305	0.00	44.97	-9.32	289.62	-9.32	207.40
310	0.00	49.93	-10.00	285.28	-10.00	204.80
315	0.00	54.89	-10.00	285.28	-10.00	204.80
320	0.00	59.86	-10.00	285.28	-10.00	204.80
325	0.00	64.83	-10.00	285.28	-10.00	204.80
330	0.00	69.80	-10.00	285.28	-10.00	204.80
335	0.00	74.78	-10.00	285.28	-10.00	204.80
340	0.00	79.75	-10.00	285.28	-10.00	204.80
345	0.00	84.73	-10.00	285.28	-10.00	204.80
350	0.00	89.71	-10.00	285.28	-10.00	204.80
355	0.75	94.69	-10.00	234.28	-10.00	161.02

5. CERTIFICATION

I HEREBY CERTIFY THAT I AM THE TECHNICALLY QUALIFIED PERSON RESPONSIBLE FOR THE PREPARATION OF THE FREQUENCY COORDINATION DATA CONTAINED IN THIS APPLICATION, THAT I AM FAMILIAR WITH PARTS 101 AND 25 OF THE FCC RULES AND REGULATIONS, THAT I HAVE EITHER PREPARED OR REVIEWED THE FREQUENCY COORDINATION DATA SUBMITTED WITH THIS APPLICATION, AND THAT IT IS COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

BY: 

Gary K. Edwards
Senior Manager
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147

DATED: November 13, 2019