Prepared By

COMSEARCH

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

Prepared For

Intelsat License LLC
Nuevo, California

Temporary Transmit-Only Earth Station
Operation Dates: 12/01/2015 – 02/28/2016

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. Verbal and written coordination was conducted with the below listed carriers on March 10, 2015.

Company

ABC Holding Company Inc.
AirSites2000, LLC
American Tower, LLC
Anaheim City, of
BNS Electronics, Inc.
CCO SoCal I, LLC
CNG Communications, Inc.
California, State of
Calvary Chapel of Costa Mesa
Chevron USA Inc.
City of Los Angeles Dept Water & Power
City of Montebello
Coast Community College District
Communication Services, Inc.
Conterra Ultra Broadband, LLC
DM Ventures, Inc. dba Warp2Biz
Encina Communications Company
Entravision Holdings, LLC
Exxon Communications Company
Federal Communication Commission
Frazier Mountain Internet Service, Inc.
Freeport-McMoRan Oil & Gas LLC
Fresno MSA Limited Partnership
GTE Mobilnet of Santa Barbara LTD Ptnsh
Glendale, City of
ION Media Los Angeles License, Inc.
KTLA, LLC
Kern Ed Telecom Consortium
Kern, County of
LDM Engineering
LOS ANGELES UNIFIED SCHOOL DISTRICT
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 SMSA Ltd. Partnership
MHO Networks
MOBILE RELAY ASSOCIATES INC
Metropolitan Water Dist of So California
NRJ TV LA License Co, LLC
New Cingular Wireless PCS - Los Angeles
New Cingular Wireless PCS LLC - N CAL
Nextel of California Inc.
Nextweb Inc
Northrop Grumman Systems Corp.
Olympic Wireless, LLC
Orange, County of, CA
Pacific Bell Tel Com dba AT&T California
Regents of the University of California
Riverside, County of
San Bernardino County of California
Santa Barbara Cellular Systems, Ltd.
Santa Barbara, County of
Skyriver Communications
Southern California Edison Company
Southern California Gas Company
Southern California Regional Rail Auth.
TV MICROWAVES CO
Turn Wireless, LLC
Ultimate Internet Access, Inc
Union Pacific Railroad Company
Ventura, County of
Verizon California Inc.
Verizon Wireless (VAW) LLC (Southern CA)
Verizon Wireless (VAW) LLC-N CA/NV
Vintage Production California LLC
Western Technical Services

There are no unresolved interference objections with the station contained in these applications.

The following section presents the data pertinent to frequency coordination of the 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:	10/27/2015
Job Number:	151027COMSGE11

Administrative Information	
Status	TEMPORARY (Operation from 12/01/2015 to 02/28/2016)
Call Sign	TEMP02
Licensee Code	INTELS
Licensee Name	Intelsat License LLC

Site Information	**NUEVO, CA**
Venue Name	
Latitude (NAD 83)	33° 47' 43.6" N
Longitude (NAD 83)	117° 5' 20.4" W
Climate Zone	A
Rain Zone	4
Ground Elevation (AMSL)	566.62 m / 1859.0 ft

Link Information	
Satellite Type	Geostationary
Mode	TR - Transmit-Receive
Modulation	Digital
Satellite Arc	55.5° W to 191° West Longitude
Azimuth Range	106.7° to 260.9°
Corresponding Elevation Angles	14.9° / 4.6°
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)			8.6	
	(dBW/MHz)			32.6	
Maximum EIRP	(dBW/4 kHz)			64.1	
	(dBW/MHz)			88.1	
	(dBW)			87.4	
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)	800KFXD / 3700.0 - 4200.0	850KFXD / 6173.7 - 6176.3
Max Great Circle Coordination Distance	660.5 km / 410.4 mi	518.1 km / 321.9 mi
Precipitation Scatter Contour Radius	440.7 km / 273.8 mi	329.4 km / 204.7 mi

Coordination Values	**NUEVO, CA**			
Licensee Name	Intelsat License LLC			
Latitude (NAD 83)	33° 47' 43.6" N			
Longitude (NAD 83)	117° 5' 20.4" W			
Ground Elevation (AMSL)	566.62 m / 1859.0 ft			
Antenna Centerline (AGL)	7.32 m / 24.0 ft			
Antenna Model	Vertex 11 Meter			
Antenna Mode	Receive 4.0 GHz		Transmit 6.1 GHz	
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%
Max Available RF Power		8.6 (dBW/4 kHz)		

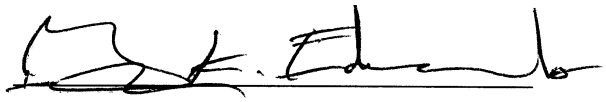
			Receive 4.0 GHz		Transmit 6.1 GHz	
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.91	99.10	-10.00	225.02	-10.00	160.90
5	2.23	101.46	-10.00	189.21	-10.00	125.83
10	1.88	96.57	-10.00	197.70	-10.00	133.16
15	2.42	91.71	-10.00	184.95	-10.00	122.25
20	2.49	86.82	-10.00	183.26	-10.00	120.85
25	2.56	81.94	-10.00	181.62	-10.00	119.49
30	3.50	77.01	-10.00	158.21	-10.00	102.07
35	3.34	72.13	-10.00	161.82	-10.00	105.02
40	3.36	67.24	-10.00	161.39	-10.00	104.68
45	3.28	62.38	-10.00	163.14	-10.00	106.09
50	2.88	57.57	-10.00	174.34	-10.00	113.58
55	2.50	52.79	-10.00	183.00	-10.00	120.63
60	2.77	47.94	-10.00	176.80	-10.00	115.56
65	3.44	43.01	-8.84	165.45	-8.84	107.67
70	3.10	38.34	-7.59	181.39	-7.59	118.69
75	3.19	33.62	-6.17	186.71	-6.17	122.45
80	3.76	28.81	-4.49	182.91	-4.49	118.43
85	3.33	24.49	-2.73	200.92	-2.73	132.61
90	3.39	20.22	-0.64	207.81	-0.64	138.46
95	2.51	17.00	1.24	239.59	1.24	168.02
100	2.99	13.66	3.62	243.31	3.62	169.07
105	3.63	11.39	5.59	240.91	5.59	162.80
110	3.84	11.51	5.47	235.07	5.47	157.65
115	3.70	13.87	3.45	224.96	3.45	150.84
120	3.87	17.17	1.13	207.65	1.13	137.07
125	3.84	21.02	-1.06	199.13	-1.06	130.13
130	4.49	24.32	-2.65	179.39	-2.65	114.61
135	3.88	28.30	-4.29	181.38	-4.29	117.10
140	4.24	31.47	-5.45	166.70	-5.45	107.49
145	4.11	34.75	-6.53	163.14	-6.53	105.27
150	4.48	37.41	-7.32	152.95	-7.32	100.00
155	4.67	39.84	-8.01	146.66	-8.01	100.00
160	4.09	42.53	-8.72	152.39	-8.72	100.00
165	4.55	43.89	-9.06	143.80	-9.06	100.00
170	4.85	44.87	-9.30	138.44	-9.30	100.00
175	5.79	44.68	-9.25	130.18	-9.25	100.00
180	6.19	44.52	-9.21	126.24	-9.21	100.00
185	6.91	43.57	-8.98	119.36	-8.98	100.00

Coordination Values	**NUEVO, CA**			
Licensee Name	Intelsat License LLC			
Latitude (NAD 83)	33° 47' 43.6" N			
Longitude (NAD 83)	117° 5' 20.4" W			
Ground Elevation (AMSL)	566.62 m / 1859.0 ft			
Antenna Centerline (AGL)	7.32 m / 24.0 ft			
Antenna Model	Vertex 11 Meter			
Antenna Mode	Receive 4.0 GHz		Transmit 6.1 GHz	
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%
Max Available RF Power		8.6 (dBW/4 kHz)		

			Receive 4.0 GHz		Transmit 6.1 GHz	
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	7.27	42.53	-8.72	116.56	-8.72	100.00
195	6.99	41.64	-8.49	120.48	-8.49	100.00
200	6.27	40.64	-8.22	129.28	-8.22	100.00
205	5.71	38.99	-7.77	135.55	-7.77	100.00
210	5.71	36.45	-7.04	138.64	-7.04	100.00
215	6.70	32.84	-5.91	134.00	-5.91	100.00
220	7.49	29.16	-4.62	130.97	-4.62	100.00
225	7.03	26.16	-3.44	139.77	-3.44	100.00
230	5.65	23.56	-2.31	162.76	-2.31	102.80
235	6.10	19.58	-0.30	170.28	-0.30	106.16
240	5.73	16.01	1.89	187.72	1.89	118.64
245	5.59	12.22	4.83	206.02	4.83	131.73
250	5.18	8.50	8.77	233.81	8.77	152.30
255	4.95	4.61	15.41	289.07	15.41	193.90
260	4.51	0.80	34.36	660.48	34.36	518.15
265	4.74	4.12	16.63	304.68	16.63	204.05
270	4.38	9.12	8.00	241.99	8.00	160.60
275	4.51	14.12	3.26	208.75	3.26	136.48
280	4.14	19.12	-0.04	199.13	-0.04	129.49
285	3.19	24.16	-2.58	204.51	-2.58	134.43
290	2.77	29.17	-4.62	203.25	-4.62	134.48
295	1.04	34.28	-6.38	238.59	-6.38	173.42
300	0.82	39.27	-7.85	241.99	-7.85	177.59
305	0.00	44.31	-9.16	290.66	-9.16	216.09
310	0.00	49.28	-10.00	285.28	-10.00	212.66
315	0.00	54.25	-10.00	285.28	-10.00	212.66
320	0.00	59.23	-10.00	285.28	-10.00	212.66
325	0.00	64.21	-10.00	285.28	-10.00	212.66
330	0.00	69.19	-10.00	285.28	-10.00	212.66
335	0.00	74.17	-10.00	285.28	-10.00	212.66
340	0.00	79.15	-10.00	285.28	-10.00	212.66
345	0.00	84.14	-10.00	285.28	-10.00	212.66
350	0.00	89.12	-10.00	285.28	-10.00	212.66
355	0.00	94.10	-10.00	285.28	-10.00	212.66

Certification

I hereby certify that I am the technically qualified person responsible for the preparation of the frequency coordination data contained in this report. I am familiar with Parts 101 and 25 of the FCC Rules and Regulations and I have either prepared or reviewed the frequency coordination data submitted with this report, 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 16, 2015